

LIFE



HOLLYWOOD'S
PRETTIEST

APRIL 17, 1944 **10** CENTS
YEARLY SUBSCRIPTION \$4.50



More and more Ethyl is going overseas!

What's your score on this MILITARY QUIZ?

These questions are not easy. One correct answer out of five is good—but you'll learn a lot about the wartime gasoline situation by testing your knowledge. Correct answers are in the last panel at the bottom of this page.



1. How many miles could an armored division move if it used this entire truckload of gasoline?

1 3 10 150 300



2. How much high-octane aviation gasoline do you need to raid Berlin from England with 1000 four-engined bombers—not counting the fighter escort?

16,000 160,000 1,600,000 16,000,000



3. It took 21 days to carry wounded men by mule back from Lae, New Guinea, through the jungle to the base hospital at Port Moresby. How long did it take to go the same distance by "ambulance plane"? 2 days 1 day 10 hours 2 hours ¾ hour

4. What is added to gasoline to improve the performance of all fighting machines in this picture?

Ether Castor Oil Ethyl Fluid Penicillin



5. Give the most important reason government agencies have placed limits on the quantity and quality of gasoline for civilian use.

To conserve crude oil To save tires To meet military needs

ANSWERS:

1. 3 miles on the 2,700 gallons in the truck.

2. 1,600,000

3. ¾ hour—and about 17,000 casualties were evacuated by plane with a tremendous saving of lives.

4. **ETHYL FLUID** is used to improve the octane rating of every gallon of fighting gasoline used by our Army and Navy. Remember, our fighting men must have the very best.

5. **MILITARY NEEDS.** The petroleum industry is doing a great job of meeting ever-mounting military requirements. But such vast quantities of high quality gasoline are now required that government agencies have had to place limits on the quantity and quality of civilian gasoline.

ETHYL CORPORATION
Chrysler Building, New York City



The statements in this advertisement have been submitted to the Office of Censorship, and it has no objection to their publication.

TODAY

the men and women of Philco are devoting the knowledge and skill that built over 17 million radios and refrigerators to the electronic miracles of modern warfare . . .



TOMORROW

...under the famous Philco name, their war research will bring you new peacetime joys for your home ...in radio, phonographs, television, refrigeration and air conditioning.



Tune in the RADIO HALL OF FAME, Sundays, 6 to 7 P. M., EWT, Blue Network. A Weekly Radio Review of Top Hits from all fields of entertainment.

PHILCO
CORPORATION

BACK THE ATTACK—BUY WAR BONDS

This One



L3KH-17Y-7AST

"PROTECTING THE AMERICAN HOME"



One of the thrift ideas still practiced, handed down by women to their daughters since Colonial days, is the Hope Chest. Like life insurance, the Hope Chest is simply "setting aside a little at a time for abundant enjoyment later."

Should Women Own Life Insurance?

Did you ever hear of a lost job?—of a sudden appendicitis operation—of a little girl whose teeth needed straightening? Do you ever dream about a trip to South America? Or owning a small house in the country?

These are a few of the things insurance can do for a woman. Money invested in Endowment insurance, for instance, means that your children are protected from the moment the first premium is paid, and it guarantees to you a lump sum or a monthly income at the end of 20, 25, or 30 years—to do all those things you've been dreaming about!

Straight life insurance, less costly than Endowment, covers another vital need, particularly in the tragic times of war. Do you have small children solely dependent upon you? Assure yourself that in case anything happens to you, they will be cared for—if not by a mother's hand, at least by a mother's wisdom and foresight.

Today, one out of every five National Life policies is bought by a woman! It's worth the small effort to find out what Insurance can do for you. Fill in the coupon below and mail it now.

NATIONAL LIFE INSURANCE COMPANY

HOME OFFICE—MONTPELIER, VERMONT

A Mutual Company, founded in 1850, "as solid as the granite Hills of Vermont"

CLIP AND MAIL THIS COUPON

NATIONAL LIFE INSURANCE CO., DEPT. 115, MONTPELIER, VERMONT

Without obligation to me, please send me your booklet, "Insurance for Women."

☐ I am a housewife.

☐ I have children.

☐ I am working.

☐ I am single.

Name

Date of Birth

Home or Business Address

LETTERS TO THE EDITORS

TRAGEDY OF VERSAILLES

Sirs:

"Tragedy of Versailles," by William C. Bullitt (LIFE, March 27), should be required reading for every deep-thinking person.

As a veteran of World War I, I have no doubt about the Allies being able to win World War II; but I do have some doubts about our ability to win a permanent peace.

Mr. Bullitt is absolutely right when he says that the "terms of peace must begin long before the defeat of the enemy," and that the "moment of great opportunity passes quickly."

Let us profit by our mistakes and avoid future wars. I only hope your article will have an influence in that direction.

CARLOS C. CRAWFORD

Salisbury, Md.

Sirs:

I want to congratulate the editors of LIFE for having prepared and published William Bullitt's brilliant and realistic account of the Versailles peace conference.

It seems to me such ventures on your part are setting a high standard for popular periodicals. Since those of us in the academic world always seem to feel free to criticize the content or emphasis of periodicals when we disagree with them, I thought it only a matter of discipline for myself to send on a commendation which is most sincere.

HADLEY CANTRIL

Director

Office of Public Opinion Research
Princeton University
Princeton, N. J.

Sirs:

The searing truth of Bullitt's superb article is that the U. S. can establish world peace only through masterful diplomatic strokes while our allies are still dependent on us for their physical preservation.

Just as Wilson was not the shrewd, Yankee horse trader that he should have been in exacting terms from our allies that would have prevented World War II, so there is alarmingly little evidence that Roosevelt is not repeating the same disastrous failure by not binding our present allies to the international agreements that will prevent World War III.

CARLOS de ZAFRA Jr.

Newark, N. Y.

Sirs:

"Tragedy of Versailles" is a remarkable piece of work. It is much more than a chronicle of what happened 25 years ago—it is an analysis of the whole problem of the transition from war to peace.

In the flood of writing on the subject this piece alone, as far as I know, goes to the root of the matter. The simple fact that the forces for good lacked strength of purpose and those of evil defeated their own ends and overreached themselves, so that in the end nobody won, is presented so that there is no escaping it.

The ink was scarcely dry at Versailles before able and informed men began to point out the tragic errors in the treaty. They all failed in one way or another because they were not content to let the facts speak for themselves. They could not keep anger and controversy out of what they had to say. All, I think, except Mr. Bullitt.

The ability to expose men's faults so that there is no comeback, no controversy, is damned rare. Lincoln's letter to Hooker is one of the few that comes to mind. I feel your article can be put alongside it.

H. W. MILLER

New York, N. Y.

(continued on p. 4)



TODAY...
IN NEW GUINEA

When our troops landed in New Guinea, Universal landed with them! For on the beachheads of Europe and Asia, as well as on our ships, our men are equipped with the finest precision optical instruments—some of them, we are proud to say, made by Universal. And many a spare-moment picture is being snapped with a Universal Camera.

TOMORROW
IN AMERICA!



BETTER-THAN-EVER PICTURES WITH FINER-THAN-EVER CAMERAS

While we're devoting 24 precious hours a day to the production of fine military optical instruments, we're using new skills, pioneering revolutionary new methods of attaining the highest precision in large-scale production. You can be sure that these achievements will bear fruit in a series of truly great cameras after the war. Expect your next camera to be a Universal!

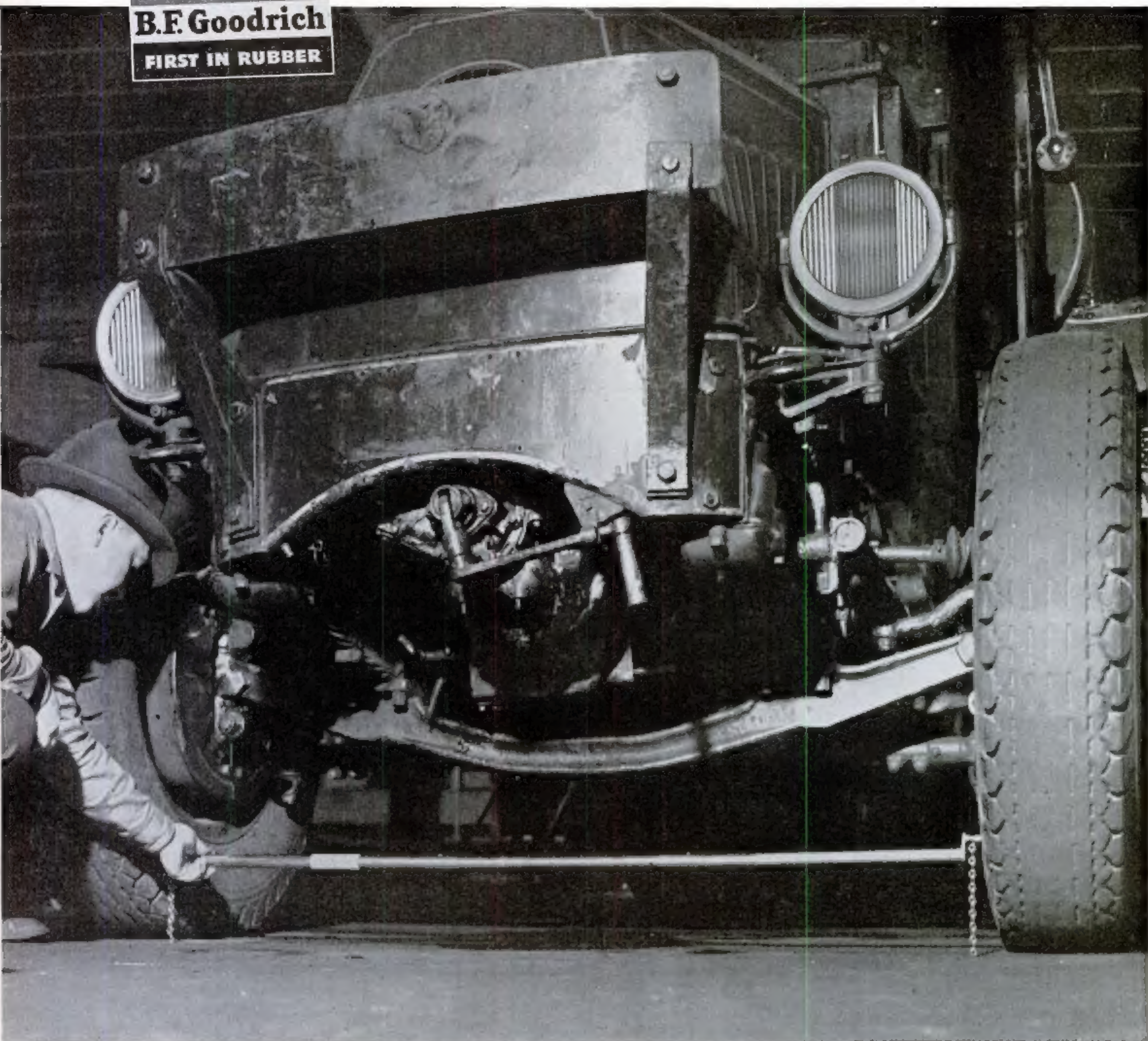
UNIVERSAL CAMERA CORPORATION

There's only one flag we've produced off!
NEW YORK • CHICAGO • HOLLYWOOD
Peacetime Manufacturers of Mercury, Cinimaster, Contair Cameras and Photographic Equipment.

In war or peace

B.F. Goodrich

FIRST IN RUBBER



The truck with the pigeon toes

A typical example of B. F. Goodrich development in rubber

FOR years many truck tires have worn out long before their time.

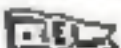
Take the case of the "pigeon-toed" truck. Most front wheels should toe-in slightly when the truck is standing still so that they will be parallel when running. If they toe-in too much, excessive tire wear results. A wheel that is only one-half inch out of alignment is dragged 87 feet every mile it rolls. Excessive wear results.

Truck owners have done their best to watch these seeming details which may shorten tire life. But still too many tires wore out before their time.

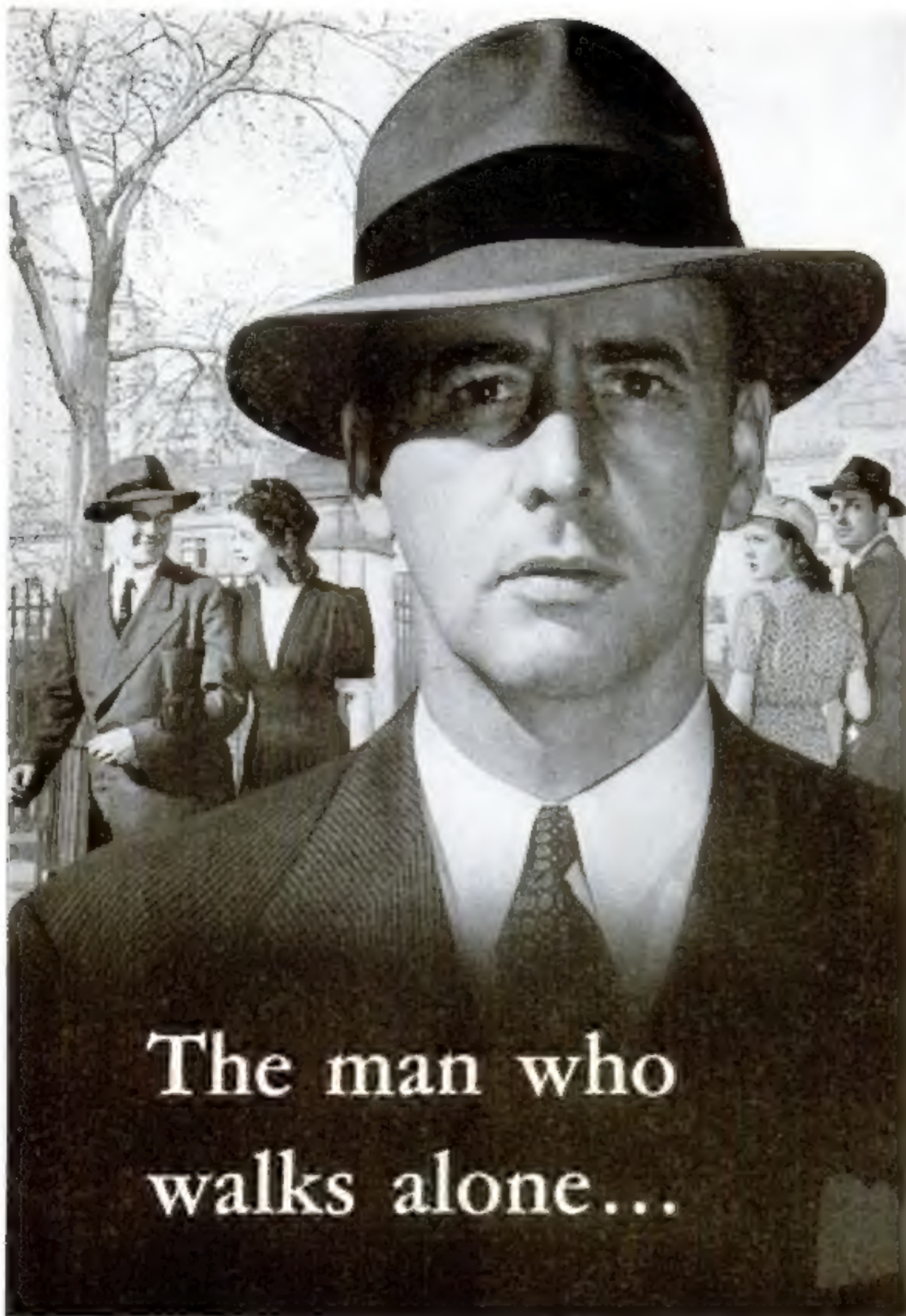
Then B. F. Goodrich drew on the experience of many years in handling completely the tire maintenance of large bus fleets. They established the B. F. Goodrich Tire Conservation Service for fleet operators. Under this plan factory-trained tire men take over the complete supervision of tire main-

tenance. These men know how to spot the pigeon-toed trucks such as that shown in the picture. They know what to look for, how to stop tire troubles before they start.

Today hundreds of fleets, including many of the country's largest, use this conservation plan. Savings of rubber, mileage, and money have been huge. Typical of the comments of operators are "We believe we will show a 25% saving" . . . "This service saves far more than it costs" . . . "The number of failures has been reduced 60%."

Only a few trained men are available to take over a limited number of additional fleets in certain areas. If you would like to know how this unusual tire conservation plan can increase your truck fleet tire mileage write the Tire Conservation Dept., The B. F. Goodrich Co., Akron, Ohio. For good truck tires see the local B. F. Goodrich dealer or Silvertown store. 

B. F. Goodrich
Truck & Bus Tires



The man who
walks alone...

Here he comes, down the street, failing to see so much of life around him—failing to speak to friends who wonder what's the matter. He's the man who walks alone because of "visual isolation" caused by ailing eyesight. Yes, vision can fail so slowly that people are often unconscious of how much their eyes need help. That is why it is wise to visit a professional man who has spent years in the study and practice of eye-care—and who can prescribe the means for better vision when needed.



Smartest Thing in Eyewear

Pictured here is a Shuron Ful-Vue mounting, an ultra modern design styled by Shuron. As strong as it is smart, this mounting holds professionally prescribed lenses in positive alignment with maximum security—a feature that has won favor with millions. When glasses are prescribed, ask for Shuron by name.

Shuron

SMART EYEWEAR

LETTERS TO THE EDITORS

CONTINUED

Sirs:

"Tragedy of Versailles" is a timely warning. It seems that the world is heading for a second, more tragic Versailles. "Unconditional Surrender" is a signpost in that direction, a peace of vengeance.

Most postwar planning lacks reality by considering Germany and Japan a kind of vacuum. Just as no foreign powers could keep the U. S. down for any length of time, so it will be inevitable that the millions of virile Germans and Japanese assert themselves for good or ill. All nations must learn to live together in justice and mutual consideration for each other.

The idea that very harsh terms will guarantee peace is a delusion. More correctly, they will guarantee war. Versailles verged very close to the harshest possible terms, much as commentators now try to soften its harshness. It proved utterly unworkable. Peace in the world must depend upon justice, fair opportunities for all and a recognition of the dignity of man. It must be a people's peace. That is the only kind thoroughly consistent with democracy.

R. LEHMANN

Evansville, Ind.

REPUBLICAN SENATE CAUCUS

Sirs:

Your editorial, "American Foreign Policy," and William C. Bullitt's "Tragedy of Versailles" (LIFE, March 27) together state lessons to be learned from past mistakes and desirable goals to be achieved.

Then I thought of the contents of "Republican Senate Caucus". I was immediately discouraged. I looked at these men and wondered if they would contribute to a second peace failure by the U. S. The Old Guard is at odds with the internationalist group headed by Wendell Willkie. You state "the members of the Steering Committee, with the exception of Bridges . . . have all in the past flirted with the isolationist bloc of the Senate. Left out . . . is Austin of Vermont . . . He shares Wendell Willkie's internationalist views."

The political pendulum seems to swing between the two major parties. The Republicans, in the minority for so long, see the pendulum swinging toward them. They hope for a majority in the Senate. If they achieve that majority, the party's leaders will be the Old Guard, from present indications.

A glance at the way Republicans in Congress vote is terrifying. Did they not almost defeat the extension of the Selective Service Act in 1941? Since then the bombs of Pearl Harbor have not changed their ways too much. Was such action merely the blows of an opposition party? Or will the Republican Party, controlled by the Old Guard, continue such policies and stick to reaction and isolation after they have gained the majority? As a supporter of those Republicans who hold internationalist views, I am really worried about the latter possibility.

DONALD V. BUTTENHEIM
New York, N. Y.

THE ALBRIGHT TWINS

Sirs:

Your story on the Albright boys (LIFE, March 27) recalls an amusing incident which happened some years ago.

In the summer of 1933 the broke and hungry artists of Chicago prevailed upon the city fathers to let them have an art exhibit in the Congress Plaza, with the hope of realizing some cash for themselves and "encourage the appreciation of art."

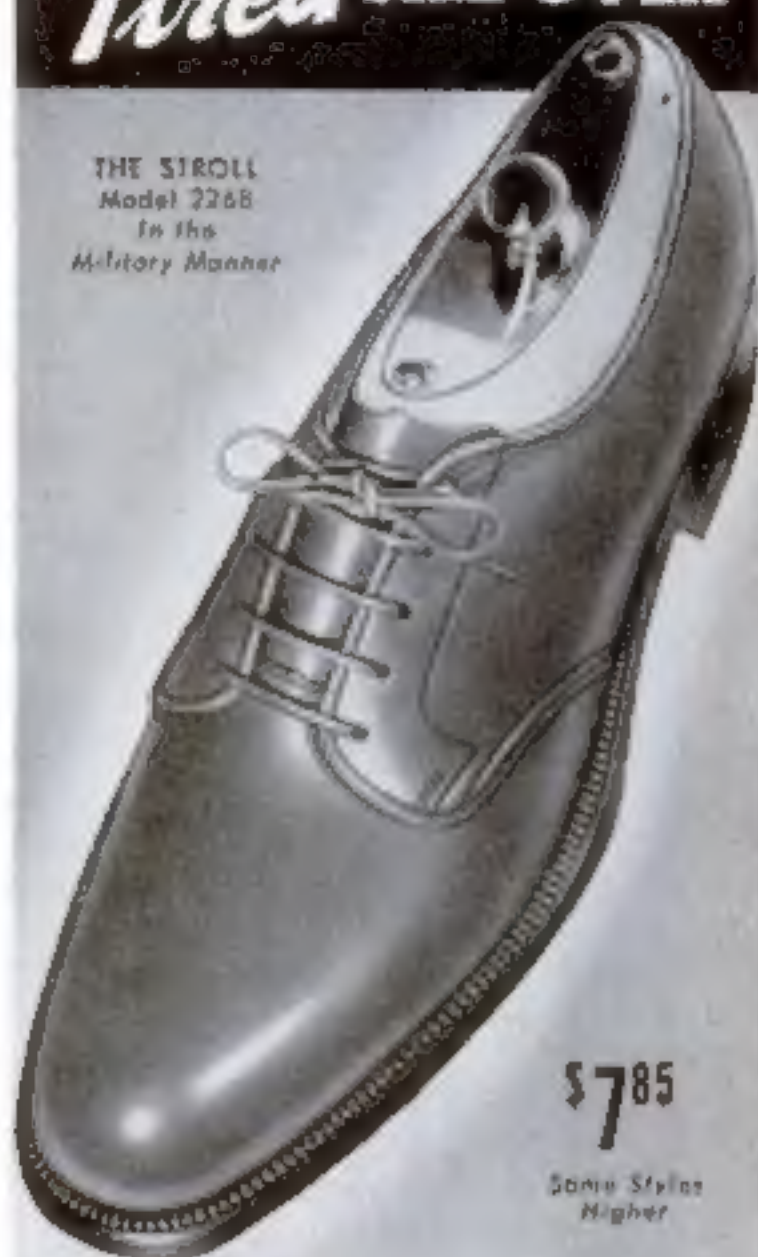
The show was colorful and attracted close to a million visitors. In the very middle of the Plaza was erected a huge scaffold on which hung Ivan's Woman. The picture is as large as a theater-lobby poster and it attracted consider-

(continued on p. 6)



WHEN YOUR FEET
ARE TIRED, YOU'RE
Tired ALL OVER

THE STROLL
Model 2268
In the
Military Manner



\$7.85

Some Styles
Higher

The time to do something about tired feet is before they get tired—by wearing Porto-Peds. You'll like the easy-on-your-feet action of the resilient air cushion and the extra support of the exclusive Arch Stay. Put an end to foot-fatigue . . . see your Portage dealer, or write us for his name.

PORTAGE SHOE MFG. CO.
Division of Weyenberg Shoe Mfg. Co.
Milwaukee, Wisconsin

CUSHIONS EVERY STEP



PORTO-PED
Air Cushioned SHOES
by PORTAGE

This is a Jap bomber. It is more than three miles above the earth. But we can hit it.



This Bofors gun does it. Of foreign design—it was extremely complicated and required so much hand work only a few guns a year could be produced.



Today certain precision parts for Bofors guns are Superfinished which greatly adds to their efficiency.



This same Superfinish process gives Chrysler engines the smoothest moving parts in the world.



Thanks to Superfinish and other automotive-production methods our Armed Forces now have the guns to blast the enemy from the sky.



Superfinish was developed eight years ago by Chrysler Division and is applied to—

WAR PRODUCTS OF CHRYSLER DIVISION

Industrial Engines • Marine Engines • Marine Tractors • Navy Pontoon • Harbor Tugs • Anti-Aircraft Cannon Parts • Tank Engine Assemblies • Tank Parts • Airplane Wing Panels • Fire-Fighting Equipment • Air Raid Sirens • Gun Boxes • Searchlight Reflectors

CHRYSLER



DIVISION OF CHRYSLER CORPORATION

The nation-wide Chrysler Dealer Organization offers owners complete service facilities to meet their wartime transportation needs.

BACK THE ATTACK WITH WAR BONDS

"You can't ration my love for lovely stockings!"

— BETTY RHODES,
featured in the new Paramount Picture,
"You Can't Ration Love"

WHEN YOU EARN your living being glamorous under the searching Kleigs, you have to have stockings you can depend on for wear, fit, sheerness, and that fashionably dull look. Like Cannon Rayons! These misty-sheer stockings seem to be made from clouds, but actually they're hi-twist which means built-to-wear! And they fit at all points—top, knee, calf, ankle, toes!



Bedtime Notice! When you wash Cannons, remember they respond to tenderness! No rayons take well to water. So, follow the instructions to the letter if you want the most from your Cannon Rayons. And give them at LEAST 36 HOURS TO DRY!



Cannon
Hosiery
HI-TWIST RAYON

Made by the makers of Cannon Towels and Sheets

CANNON MILLS, INC. • 70 WORTH STREET, NEW YORK 13, N. Y.



Cannon rayons are worth waiting for! If you can't buy them the minute you want them, be patient and try again in a few days. Meanwhile, with proper care, those you're wearing will give you a performance you wouldn't dream possible from rayons—even in these days when you're dutifully making everything you own last as long as it possibly can!

LETTERS TO THE EDITORS CONTINUED

able attention, all unfavorable. One suffering artist who could stand it no longer neatly lettered a placard "Whistler's Grandmother" and when no one was looking hung it on the painting. That did the trick. The extreme contrast between the Woman and the postage stamps of Whistler's "Mother," then on sale, tempered the sense of revolting disgust with a dash of dry humor, and those who looked and read departed chuckling to themselves. The placard stayed there the full run of the exhibit.

To this day, the picture is known to all Chicagoans who remember it as "Whistler's Grandmother."

ALEXANDER MAXWELL

Chicago, Ill.

Sirs:

I am sure that nothing anyone says will alter the painting approach of the Albright twins, but I would like to hear, from Ivan especially, the justification for the horror, vulgarity, depravity and obscenity of the paintings of the human figure reproduced in LIFE.

What is Ivan driving at in his figure paintings? Is he unashamedly showing us the inner workings of his mind, or does he enjoy watching humanity squirm and vomit when they look at his work? Is such work just one more example of the state of civilization today?

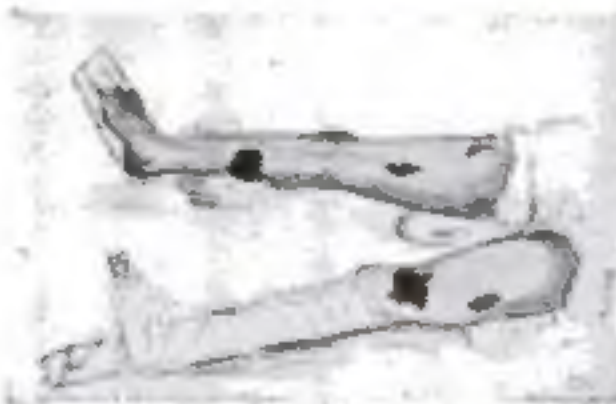
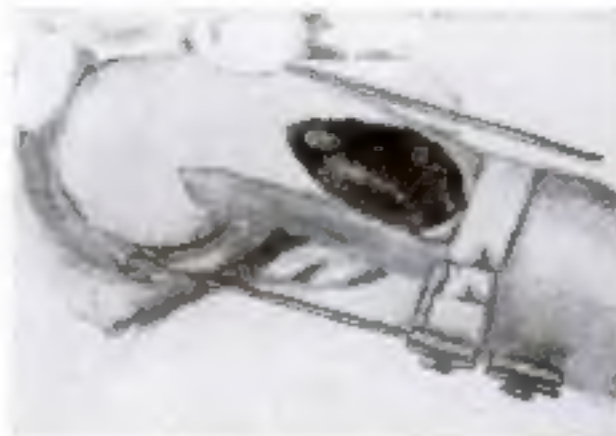
PHILIP PALMER

Salem, Ore.

Sirs:

During World War I the Albright twins served in the medical corps and were assigned to Base Hospital No. 11 in France.

Pvt. Ivan Albright was the artist for the group, even at that time, and I had



him draw and color the injuries of different patients in the hospital.

There are some 50 different cases which he drew for me, all signed by Ivan Lorraine Albright. I thought you might like to see some.

ALBERT TORMEY, M.D.

Madison, Wis.

(continued on p. 8)

By America's Largest Fountain Pen Manufacturer

\$1.95

WEAREVER

Zenith

Did you write him today?

Home-front hint: When you put down this magazine, pick up a pen and write your service man a letter right away! Be chatty, optimistic... send good news. It's all-important for his morale! Perhaps you will write with a Wearever Zenith pen—ruby-topped, beautiful, an efficient writing tool. But *what-ever* pen you use, write him today if you can. Wearever Zenith is made in limited quantities for civilian needs by DAVID KAHN, Inc. (established 1896)

Wearever Zenith Pen and Pencil Set \$2.75 in attractive gift box



A *Free* COPY TO NEW MEMBERS OF THE BOOK-OF-THE-MONTH CLUB

Two Great Love Stories
In a New Beautifully Illustrated Edition

JANE EYRE

by Charlotte Brontë

and

WUTHERING HEIGHTS

by Emily Brontë

RETAIL PRICE \$5.00



Jane Eyre and her companion wards of charity give thanks for the meager fare of Lowood School... one of Fritz Eichenberg's 37 striking wood-engravings made especially for these volumes.



Illustrated with 37 Wood-Engravings by Fritz Eichenberg

YOU CAN BEGIN YOUR SUBSCRIPTION WITH ANY ONE OF THESE NATION-WIDE BEST-SELLERS

All recent Book-of-the-Month Club selections!

SO LITTLE TIME

BY JOHN P. MARQUAND

\$2.75

One of the leading, and most talked-about, best-sellers all over the country. "I do not recollect in any recent novel such a really brilliant succession of scenes," says Henry Seidel Canby.

PARIS-UNDERGROUND

BY ETTA SHIER

and c/o POSTMASTER

BY CORP. THOMAS ST. GEORGE

(double selection)

COMBINED PRICE TO MEMBERS
\$3.00

Paris-Underground tells of the exciting experiences of two brave women who defied the Gestapo. In *c/o Postmaster*, the Corporal gives a gay account of American soldiers en route to Australia, and during their stay there.

DER FUEHRER

BY KONRAD HEIDEN

\$3.00

Using new material of a sensational nature, the world's foremost authority on Hitler and National Socialism tells for the first time the complete story of *Der Fuehrer's* rise from nowhere to absolute dictatorship.

PERSONS & PLACES

BY GEORGE SANTAYANA

and THE SIGNPOST

BY E. ARNOT ROBERTSON

(double selection)

COMBINED PRICE TO MEMBERS
\$3.00

An autobiographical account of a world-famous philosopher's brilliant, formative years, *Persons and Places* is exquisitely wise and delightfully humorous. Witty and charming, *The Signpost* is an imaginative novel with an unusual setting in modern Ireland.

WHAT A SUBSCRIPTION INVOLVES: Over 500,000 book-reading families now belong to the Book-of-the-Month Club. They do so in order to keep themselves from missing the important new books they are really interested in.

As a Club member, you receive an advance publication report about the judges' choice—and also reports about all other important coming books. If you decide you want the book-of-the-month, you let it come. If not (on a blank always provided) you can specify some other book you want, or simply say: "Send me nothing."

Last year the retail value of free books given to Club members was over \$7,000,000—given, not sold! These book-dividends could be distributed free because so many subscribers ordinarily want

the book-of-the-month that an enormous edition can be printed. The saving on this quantity-production enables the Club to buy the right to print other fine library volumes. These are then manufactured and distributed free among subscribers—one for every two books-of-the-month purchased.

Your obligation as a member is simple. You pay no yearly fee. You merely agree to buy no fewer than four books-of-the-month in any twelve-month period. Your subscription to the Club is not for one year, but as long as you decide; you can end it at any time after taking four books-of-the-month. You pay for the books as you get them—the regular retail price (frequently less) plus a small charge to cover postage and other mailing expenses. (Prices are slightly higher in Canada.)

BOOK-OF-THE-MONTH CLUB

A224

385 Madison Avenue, New York 17, N. Y.

Please enroll me as a member. I am to receive a free copy of *JANE EYRE* and *WUTHERING HEIGHTS*, and for every two books-of-the-month I purchase from the Club I am to receive, free, the current book-dividend then being distributed. I agree to purchase at least four books-of-the-month from the Club each full year I am a member, and I may cancel my subscription any time after purchasing four such books from the Club.

Name..... Please Print Plainly

Address.....

City..... Postal District..... No. (if any)..... State.....

Begin My Subscription With.....
(choose one of the selections above)

Book prices are slightly higher in Canada but the Club ships to Canadian members, without any extra charge for duty, through Book-of-the-Month Club (Canada) Ltd.



Ann converts a breakfast grouch!



1. "COME... FORGET YOUR PREJUDICE!
Lots of people love bran! You will
too... that is, if it's Nabisco Bran,
made by the folks who bake your
favorite Ritz Crackers.



2. "THERE! DOESN'T THAT TASTE GOOD?
And notice how small the fibers are.
That's because this bran is double-
milled to make it finer, less likely
to be irritating.

3. "AND THAT'S THE REASON NABISCO 100% BRAN offers such
mild, gentle relief from constipation due to insufficient bulk!"



IT'S GENTLE—BECAUSE IT'S DOUBLE-MILLED

What does double-milled mean to you? Just
this... Nabisco 100% Bran is milder, because
a special process breaks down each bran fiber
making it smaller, less likely to be irritating.
These smaller, finer bran fibers offer gentle,
effective relief from constipation due to insuffi-
cient bulk. You and your family will enjoy this
flavorful bran as a delicious cereal or as tasty
muffins (the recipe is on the package). Look for
Nabisco 100% Bran in the yellow-and-red pack-
age when you buy



If your constipation is not helped in this
simple manner, see a competent physician.

BAKED BY NABISCO • NATIONAL BISCUIT COMPANY



This seal means that the
Council on Foods and Nu-
trition of the American
Medical Association has
accepted this product and
approves this advertising.

LETTERS TO THE EDITORS

CONTINUED

CHARTED GRABLE

Sirs:

I would like to correct the impression
given in the "Charted Grable" article
in your March 27 issue of LIFE that
"only the Army Air Forces" use this
training aid.

This graphic portfolio on elementary
map reading was published by the
Training Division, Army Service Forces,
with preparatory work being done at
the Engineer School, Fort Belvoir, Va.

The original idea for the chart pic-
tured was to introduce the U. S. mili-
tary grid system, not geographic coor-
dinate of latitude and longitude. The
military grid coordinates of Miss Gra-
ble's left knee (reading right-up) would
be 68-83.

CAPTAIN HARRY E. SEAGREN
Fort Belvoir, Va.



68 RIGHT, 83 UP

Sirs:

Although we experienced precious
little difficulty in locating Miss Grable's
knee, we are forced to admit that our
navigational training entered not even
a little bit into the finding; as a matter
of fact, it is a good thing that we
looked with our eyes and not our intel-
lects, for had we done the latter we
would probably have found our 83°
longitude somewhere in the Campbell's
soup ad on the next page. God only
knows where our search for 68° of lati-
tude would have taken us!

A/C C. D. WATERMAN JR.,
USMC

A/C GEORGE JACKSON,
USMC

A/C T. M. MURRELL, USNR
Corpus Christi, Texas

Sirs:

Seems GIs aren't the only ones who
confuse latitude and longitude.

CPL. CHARLES E. HALL
Camp Claiborne, La.

Sirs:

You have presented a callous mis-
representation of fact: you have con-
fused longitude and latitude, thus
placing Miss Grable's well-designed
knee in a very awkward spot, entirely
out of proportion to the rest of her
features.

PFC. ELI RAKOWITZBY
PFC. ERNEST SAUNDERS
PFC. JOHN H. SHEDLOCK
PFC. RUSSELL H. PETTEBONE
PFC. PETE G. TODOROFF
and numerous others

Easton, Pa.

● To the overwhelming number of
Miss Grable's admirers in the armed
forces, LIFE's apologies for mislo-
cating her knee.—ED.

(continued on p. 11)

OUR TRADE MARK WINDBREAKER

REG. U.S. PAT. OFF.

LOOK FOR THIS LABEL



SIZES 12 TO 20 SIZES 4 TO 10

A MASTERPIECE OF CRAFTSMANSHIP

WHITMAN SHOWER-PROOF GABARDINE
VARIOUS FABRICS, COLORS AND LININGS

JOHN RISSMAN & SON
MANUFACTURERS • CHICAGO



TAKES ONE SECOND TO SAVE A LIFE

The buoyant carbon dioxide gas in a
Sparklet Bulb expands to 450 times
its compressed volume when released
into a life belt. With a single motion
—in one second—two bulbs inflate a
belt to support a man till rescued.

SPARKLET BULBS

You can get Sparklet Bulbs
and Syphons again after Vic-
tory to add sparkle and pep
to plain water for peppy,
home-mixed club sodas—
the smart, convenient way.

Let's All
Back the Attack
Buy More War Bonds



SPARKLET DEVICES, INC.
DIVISION OF KNAPP-MONARCH CO., SAINT LOUIS



More power to you!

LOOK UP, SON! At those white-starred planes, boring their swift lanes across the sky.

There's a story there for you. About your country. About the kind of place it has been. And is. And can be for you. It goes like this:

We had fighting planes back in 1918 too. Pretty good ones—for their time.

But they weren't as fast and couldn't travel as far because they had only about half as much power per pound of engine.

Even then, General Motors men were puzzling over such things as why engines "knocked" and why we didn't get all the power we should from gasoline.

After long trying, these GM men pried loose the secret of tetra-ethyl lead. Yes, the same "Ethyl" we see written on gas pumps today. And that unlocked a whole world of developments not only in better motor fuels, but in quieter, more

powerful engines in which to use them.

General Motors men would be last to claim all the credit for the plus-powered gasoline our fliers use today. But because they wanted to provide more and better things for more people—in this case, more and quieter power from the average man's car—they opened the door to the magic of anti-knock compound to increase the power of any gasoline in which it is used.

Now we have the fastest warplanes in the world, in part at least because of peacetime work on automobile engines and fuels.

Such work will continue.

Why? Because here in America it has always been worth while for men to tackle hard jobs. They've known they could win a just reward for doing great things.

That's what built the peacetime America we're so proud of. It helped make our country strong in war.

It will again make a wonderful land to live in when lasting Peace has been finally won!

GENERAL MOTORS

"VICTORY IS OUR BUSINESS"

CHEVROLET • PONTIAC • OLDSMOBILE • BUICK • CADILLAC
BODY BY FISHER • FRIGIDAIRE • GMC TRUCK AND COACH

Every Sunday Afternoon
GENERAL MOTORS
SYMPHONY OF THE AIR
NBC Network

KEEP AMERICA STRONG
Buy War Bonds



Forest Fantasy



CHILDREN play in the green, green meadows of the morning. . . . In their reveries, wolves prowl in the dark, deep forests of the night. . . . But never a dream-wolf that cannot be vanquished by a child.

In that happy fantasy of childhood, captured villains are led in triumphant processions. Processions leading to pleasant places of delight—castles and circuses and zoos.

Make-believe is childhood's blessing. But for the man—matured by care and worn by toil—escape from reality is harder to come by. That is why music is man's heaven-sent boon. For in music—song or symphony, concerto or cantata—there is release from anxiety and a lift to happier living.

Men who look to music for moments of joy and fulfillment, look to the Capehart. For the Capehart Phonograph-Radio is a supreme interpreter of the world's finest compositions.

Today the Farnsworth Television & Radio Corporation is developing and producing highly scientific electronic instruments for war; but new Capeharts will be available after Victory is won.

Meanwhile, your Capehart dealer invites you to come to his showrooms. You will enjoy—as will your children—the recordings of Prokofiev's "Peter and the Wolf," narrated by Basil Rathbone with Stokowski and the All-American Orchestra (Columbia M-477), or narrated by Richard Hale with Koussevitzky

The processional scene from Prokofiev's "Peter and the Wolf," an interpretation painted by Edward Bok Utrecht, distinguished American artist. The canvas depicts Peter in the vanguard of The Hunters, The Wolf, Grandfather and The Cat, while The Bird flies chirping overhead—all done in the delightful color and gay pomp of childhood. . . . Painted for the Capehart Collection.

Portfolios of reproductions of paintings in the Capehart Collection may be secured at nominal cost from your dealer, or direct from the Capehart Division at Fort Wayne 1, Indiana.

and the Boston Symphony Orchestra (Victor M-566), or narrated by Frank Luther with Smallens and the Decca Symphony Orchestra (Decca A-130).

Capehart Division, Farnsworth Television & Radio Corporation, Fort Wayne 1, Indiana.

INVEST IN VICTORY—BUY WAR BONDS

CAPEHART - PANAMUSE

Products of

FARNSWORTH TELEVISION & RADIO CORPORATION



The Capehart Early Georgian



5¢

MADE FROM *Real* ORANGES

Distinguished
FOR BEAUTY
Famed
FOR ACCURACY

GIRARD PERREGAUX
Since 1791

For Illustrated Booklet Write to Dept. L
GIRARD-PERREGAUX
Rockefeller Plaza New York 20, N. Y.

LETTERS TO THE EDITOR

SEE HERE, PRIVATE HARGROVE

Sirs:

If I were Pvt. Hargrove and got into that awkward situation of facing the major general (LIFE, March 27) while in the act of putting his overcoat on, I wouldn't get scared a bit. I would get the nearest MP and have the impostor arrested! How would I know? A simple deduction, my dear Watson. Any real



HOLLYWOOD GENERAL

general would know what insignia he is entitled to. Our Hollywood general is wearing field artillery's cross cannons on his lapels, which is obviously incorrect. All general officers are generals of the U. S. Army and never assigned to a particular arm. Thus, even though commanding artillery troops, the general would never wear the artillery insignia on his uniform.

CPL. MARVIN T. ORSLER
Fort McClellan, Ala.

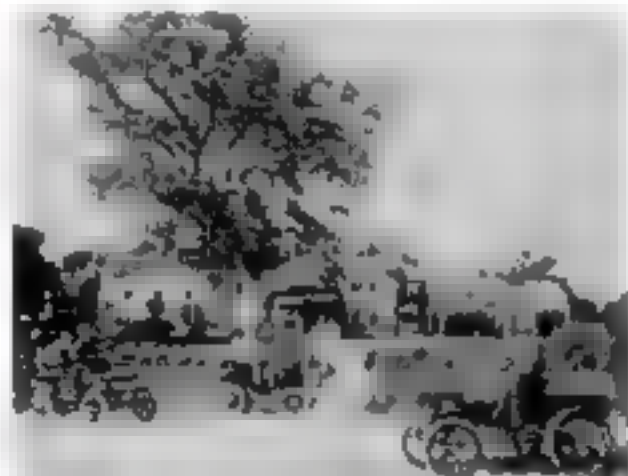
● Hollywood sadly admits that only a Hollywood general would wear the cross cannons of the Artillery on his lapels. It is incorrect for generals of the line to wear the insignia of any specific arm or service.—ED.

THE WAYSIDE INN

Sirs:

This scene was taken in front of the Wayside Inn (LIFE, March 27), Sudbury, Mass. shortly after the turn of the century.

The vehicles are all lever-steered electric. Note the solid rubber tires on that



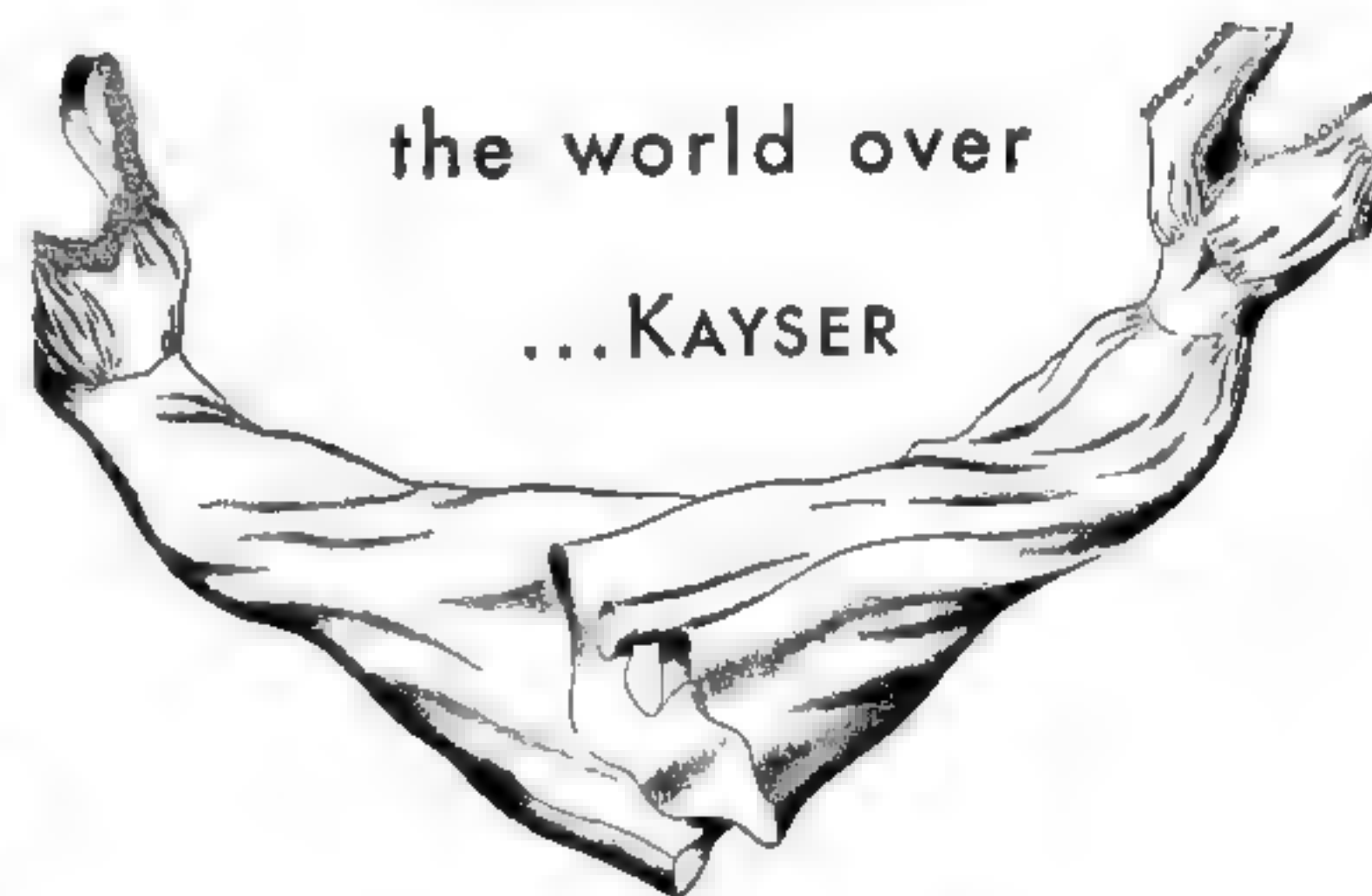
"sport model" at the right. If a machine traveled over 25 miles with a re-charge, the operator usually kept his eyes peeled for tow horses rather than a service station. Maximum speed: approximately 12 miles per hour

C. S. HENSHAW
Brookline, Mass.

Time, LIFE, Fortune and the Architectural Forum have been cooperating with the War Production Board ever since Jan., 1943, on the conservation of paper. During the year 1944 these four publications of the Time group are budgeted to use 73,000,000 pounds (1450 freightcarloads) less paper than in 1942. In view of resulting shortages of copies, please share your copy of LIFE with your friends.



The
ONE Brand name
that's a



Grand name
the world over
...KAYSER

KAYSER

GLOVES • UNDERWEAR
HOSIERY • LINGERIE

*If you must buy...Be wiser buy Kayser
- but buy War Bonds first*

SPEAKING OF PICTURES...

... LADIES DEMONSTRATE LIGHT AND LENSES

The young ladies in these pictures are moving white ribbons through prisms and lenses to show some of the complicated things that happen to light when it is bent and bounced by optical objects. Their demonstrations were put on by the Bausch & Lomb Optical

Co. as part of an employe show at Eastman Theatre in Rochester, N. Y.

Although the demonstrations are fanciful they are based on accurate optical concepts governing the transmission of light. By knowing how light acts such pre-

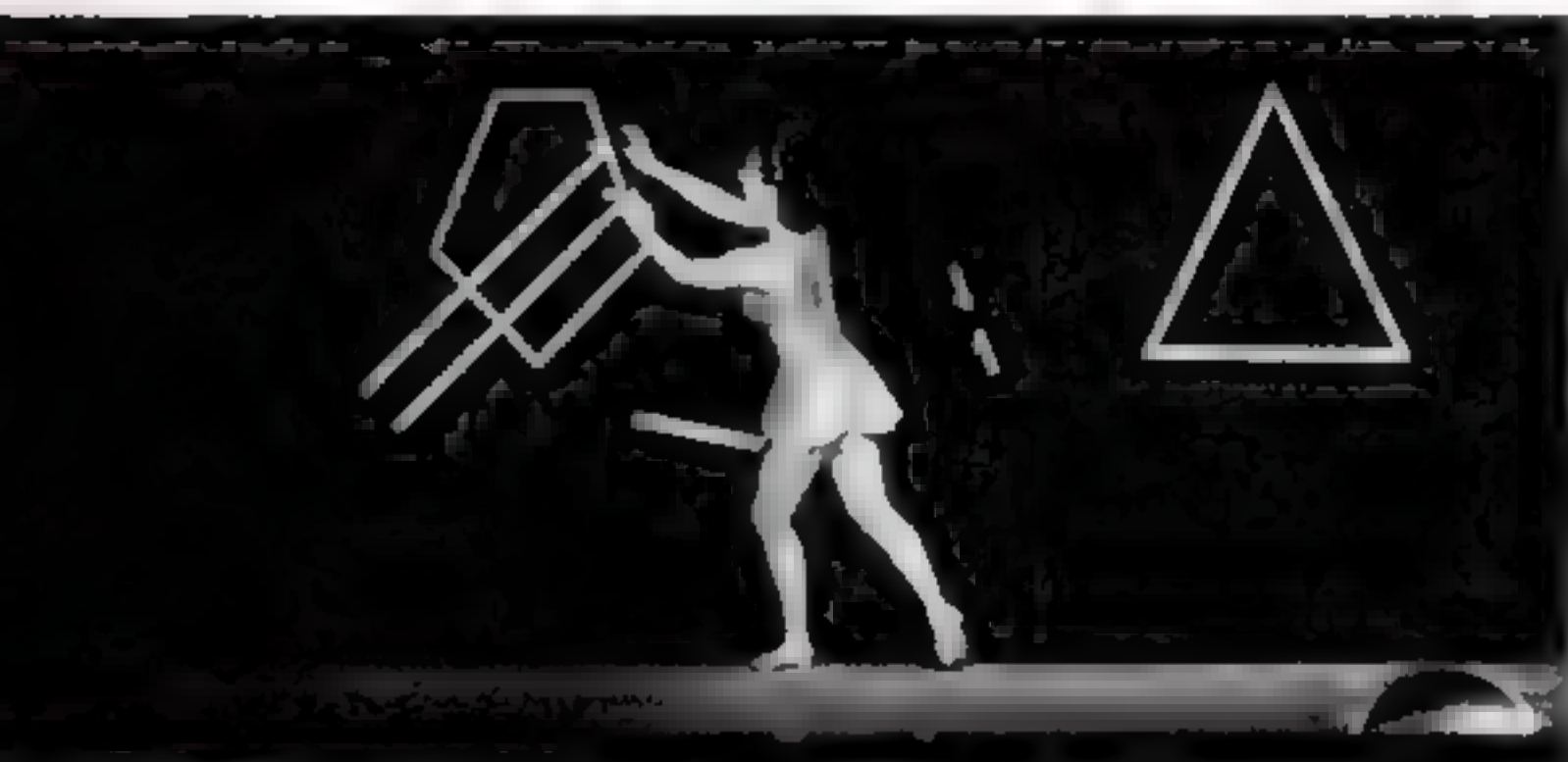
cise instruments as periscopes, telescopes, range finders and bombsights can be produced. These instruments are made up of properly fitted prisms, mirrors and lenses which make light behave in the desired way by the principles of refraction, dispersion and reflection.



A DEMONSTRATOR STARTS IMAGINARY LIGHT RAYS TOWARD A "PENTAPRISM"



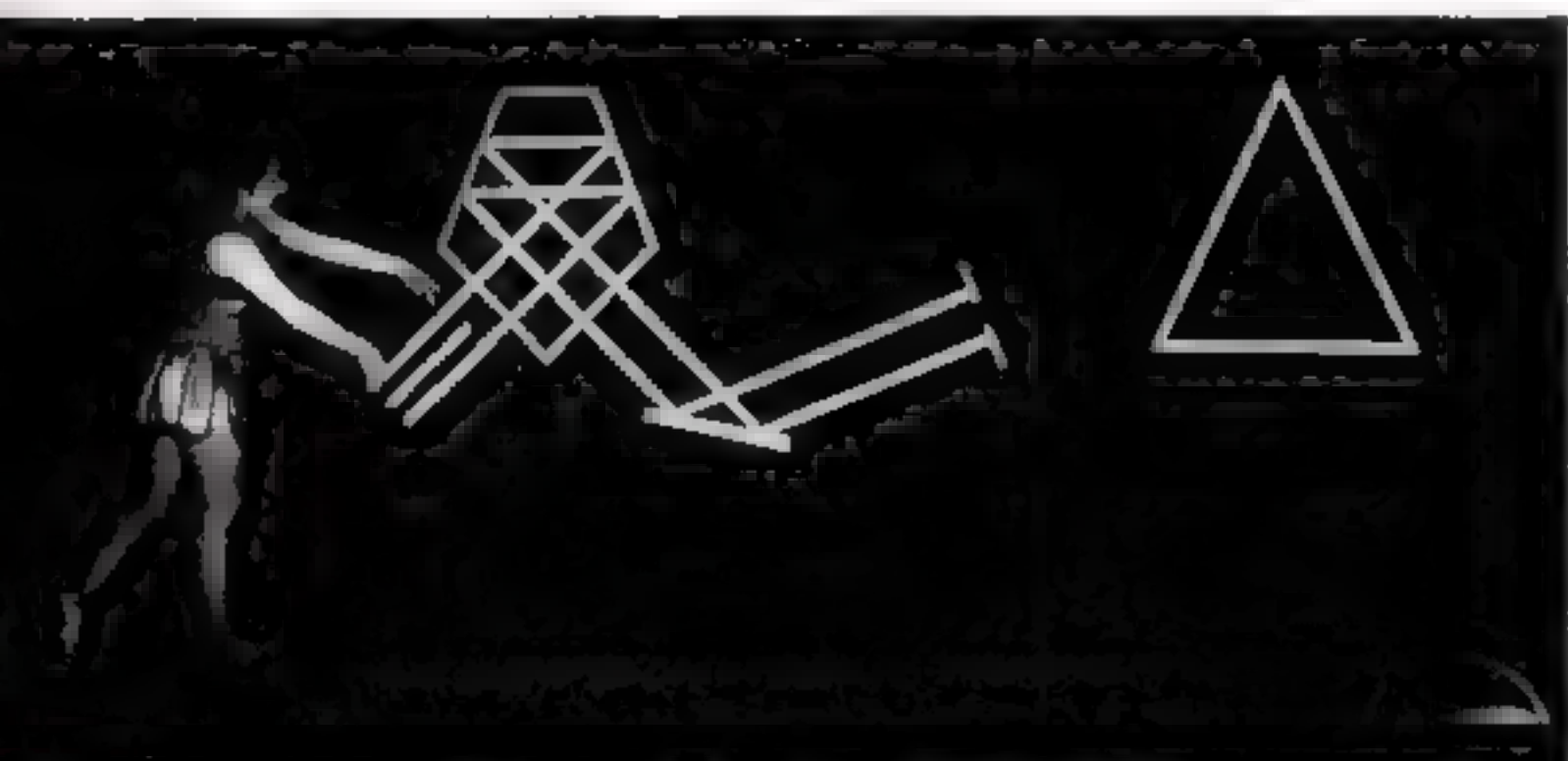
LIGHT RAYS HAVE ENTERED PENTAPRISM AT RIGHT ANGLES TOWARD AN INTERNAL SURFACE



PATH OF LIGHT STRIKES INTERNAL SURFACE, IS REFLECTED IN NEW DIRECTION



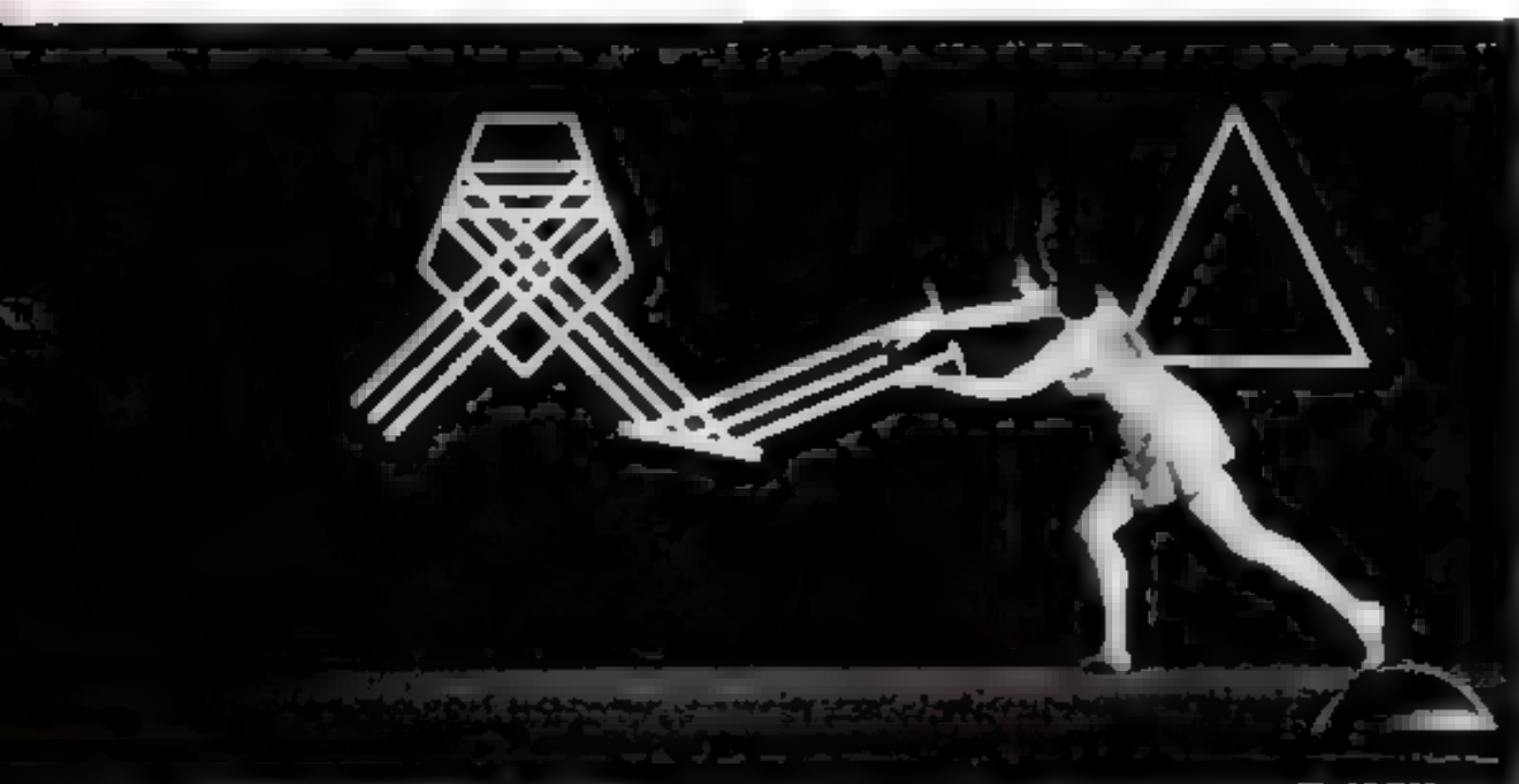
COMPLETING COURSE WITHIN PENTAPRISM LIGHT EMERGES TO REFLECT FROM MIRROR BELOW



BARRIER (RIGHT) BLOCKS BEAMS, THIRD BEAM IS STARTED INTO PENTAPRISM



MIDDLE BEAM; PROGRESSES THROUGH PENTAPRISM ON A COURSE PARALLEL TO ORIGINAL BEAMS



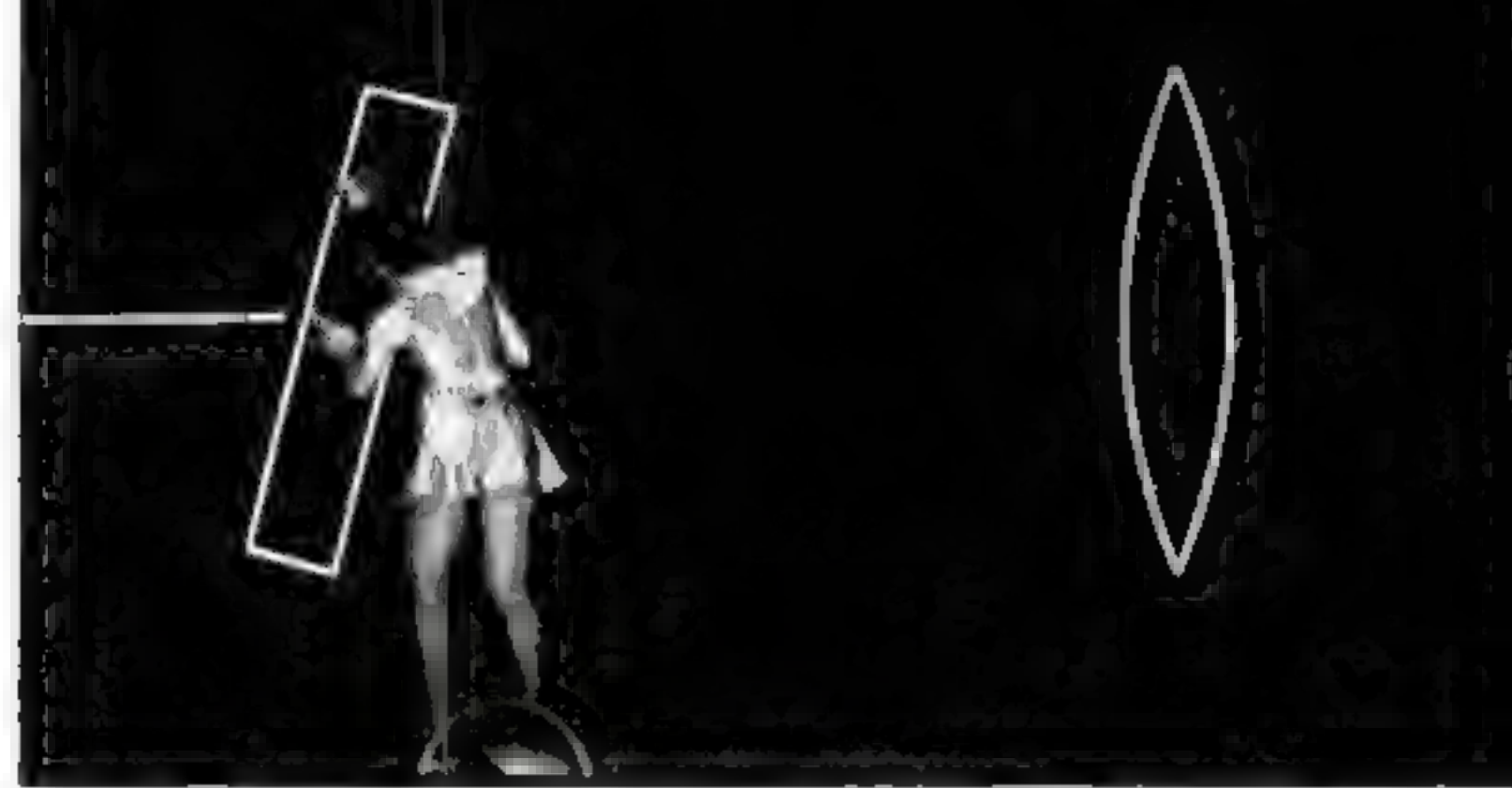
MIDDLE BEAM; REFLECTS FROM MIRROR TOWARD SMALL SLIT IN THE BARRIER



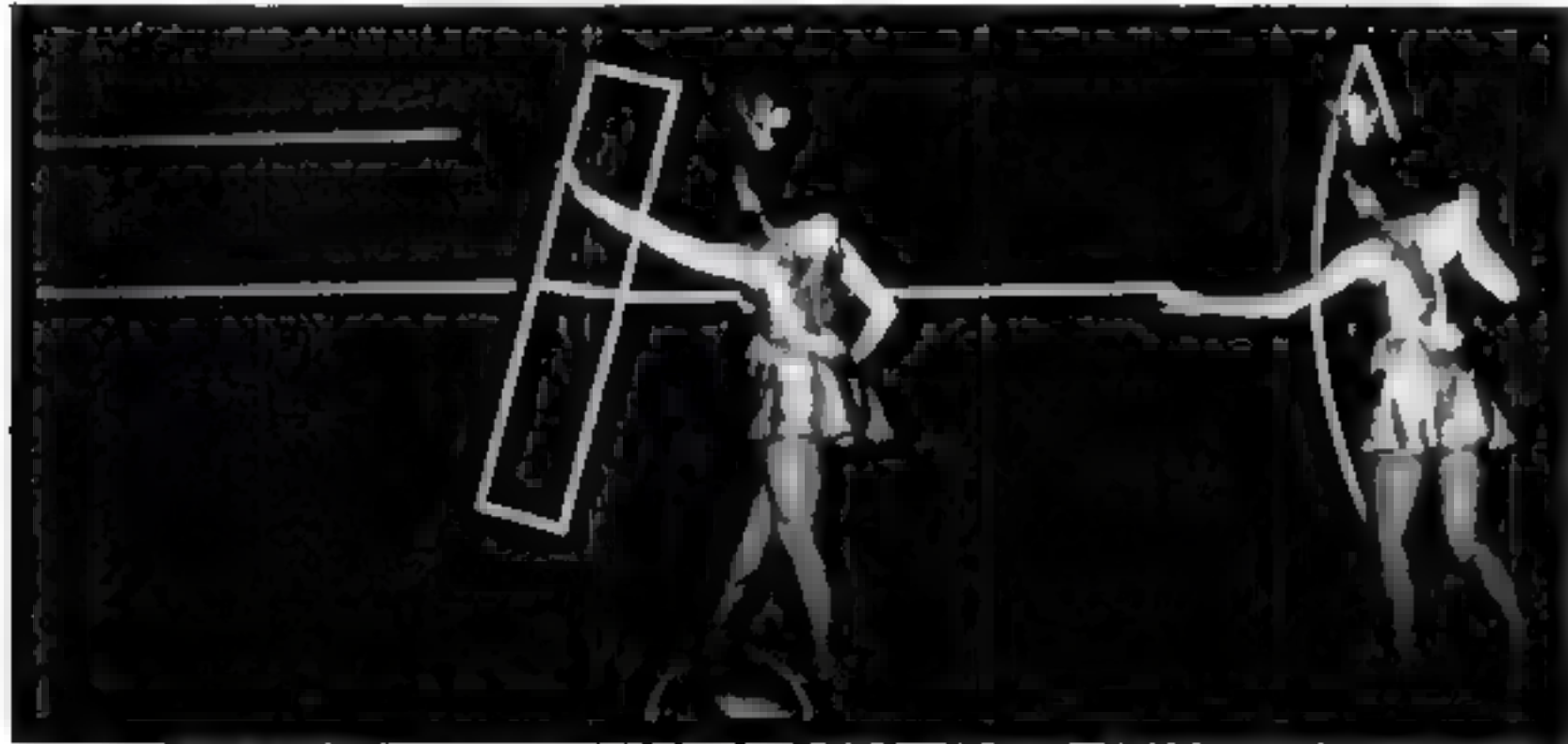
PASSING THROUGH SLIT, BEAM IS DISPERSED BY SIMPLE PRISM INTO SPECTRUM COMPONENTS



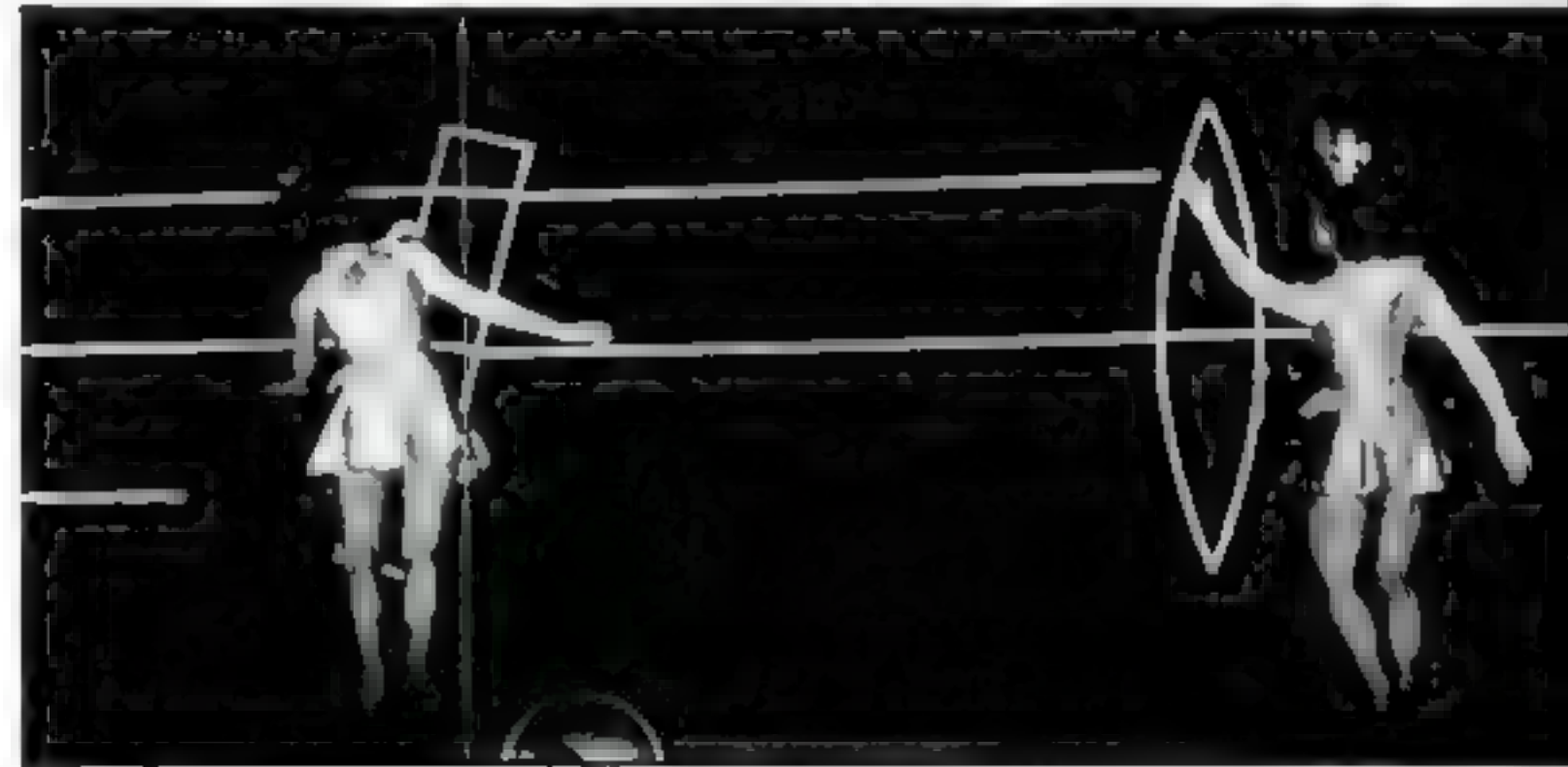
HERE LIGHT IS REPRESENTED BY STREAK TRAVELING THROUGH AIR TOWARD PLATE OF GLASS



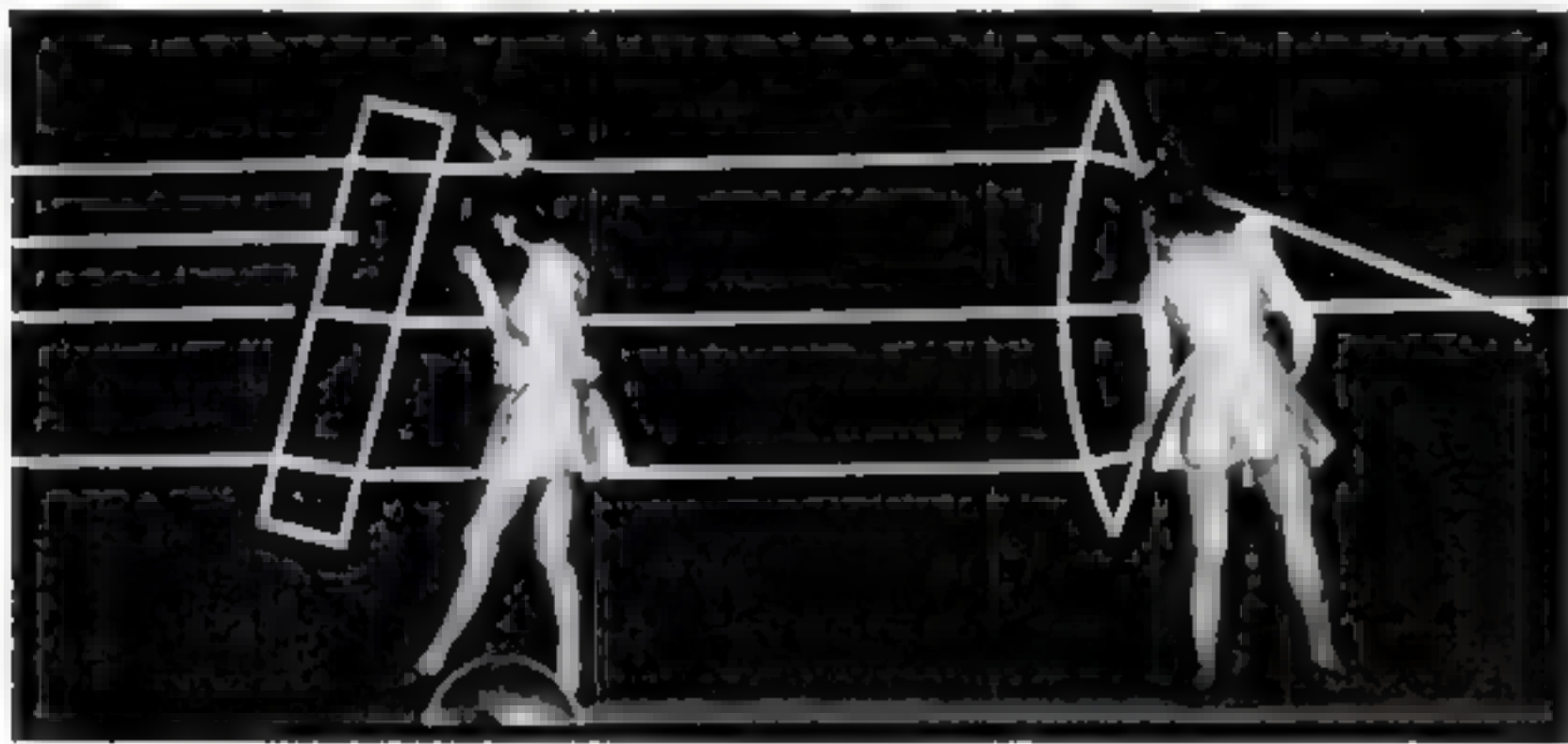
BECAUSE GLASS SURFACE IS TILTED BEAM WILL REFRACT (BEND) IN PASSING



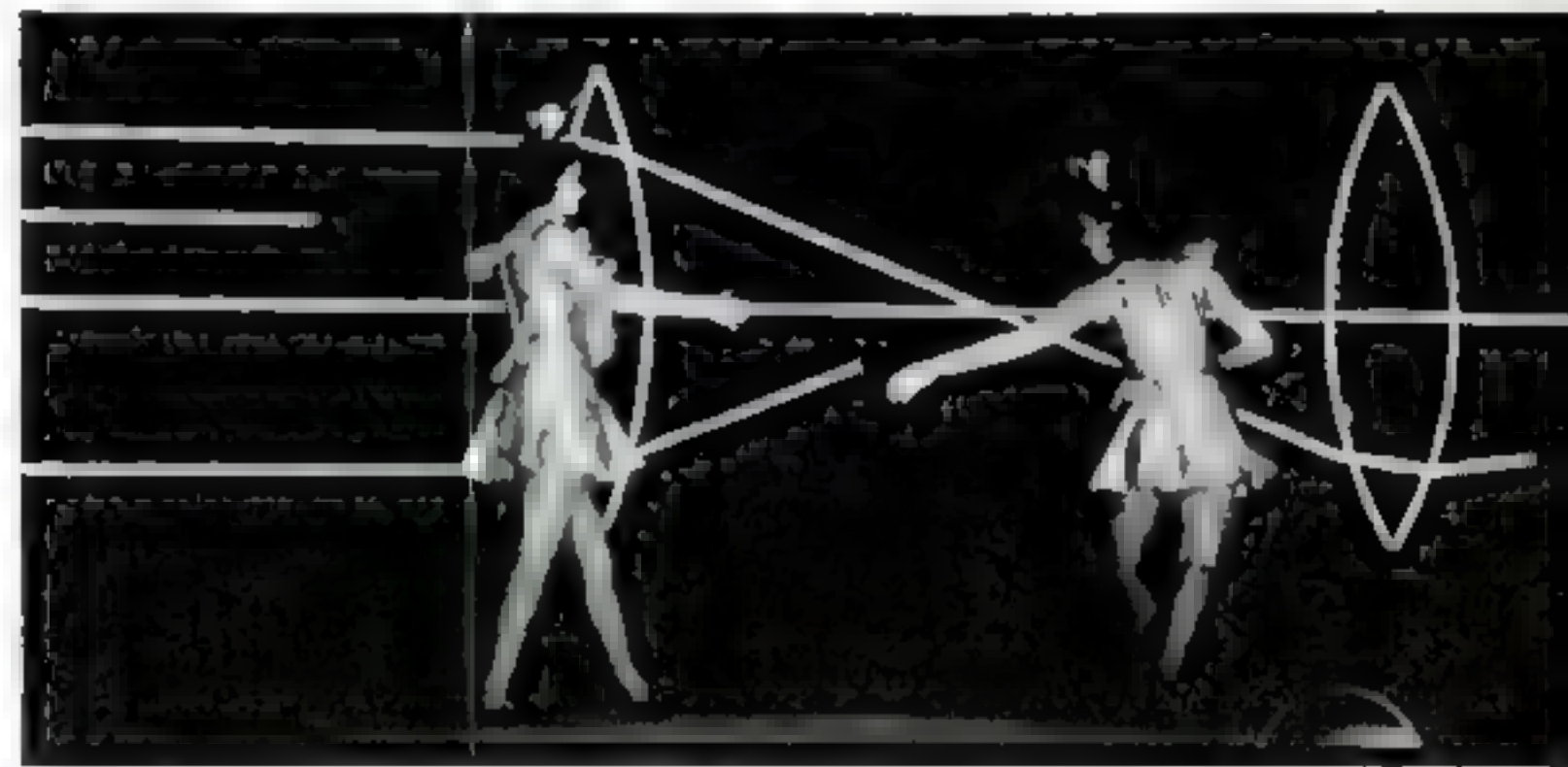
REFRACTED AT BOTH SURFACES, BEAM EMERGES PARALLEL TO DIRECTION OF ORIGINAL COURSE



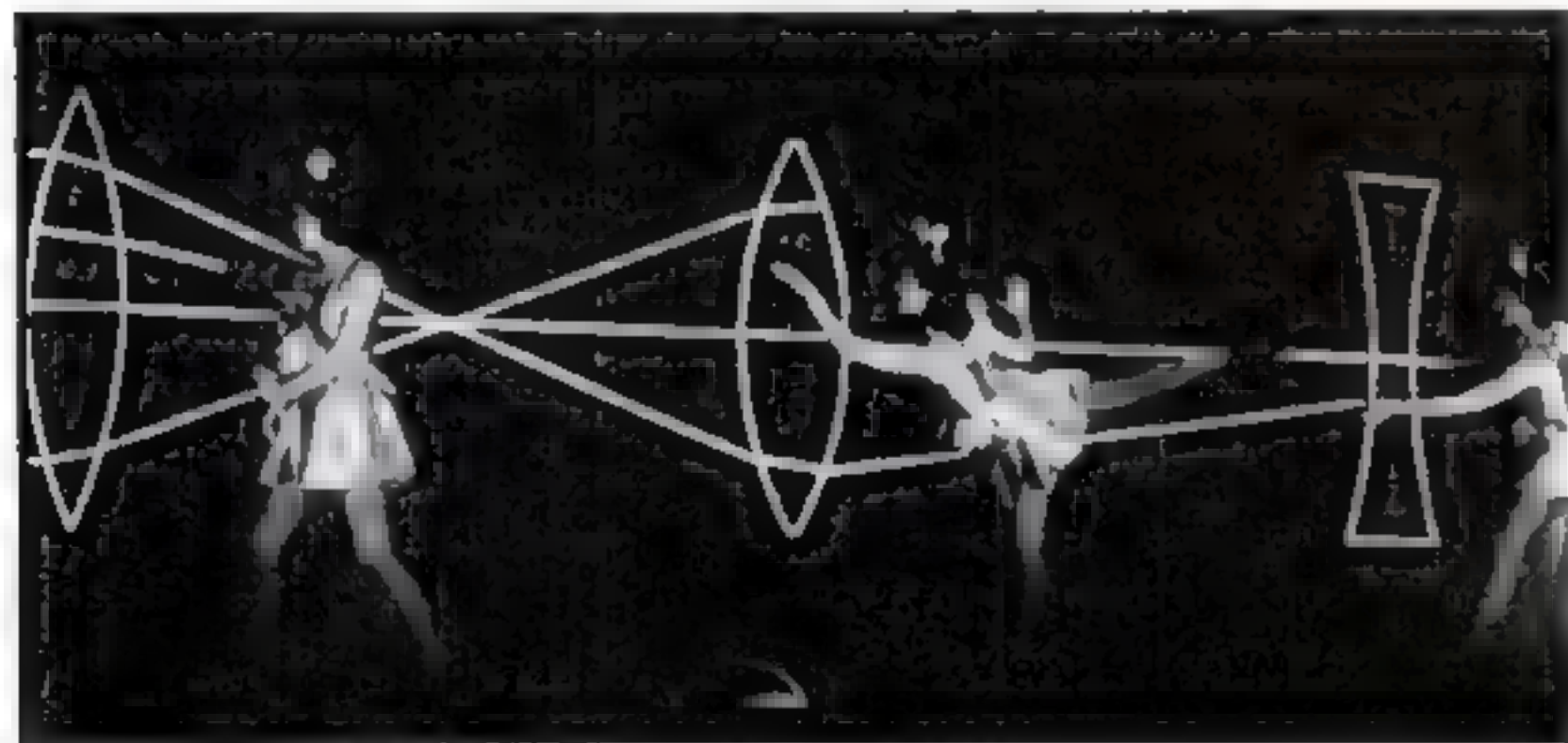
PASSING THROUGH MIDDLE OF DOUBLE CONVEX LENS THE BEAM IS UNCHANGED



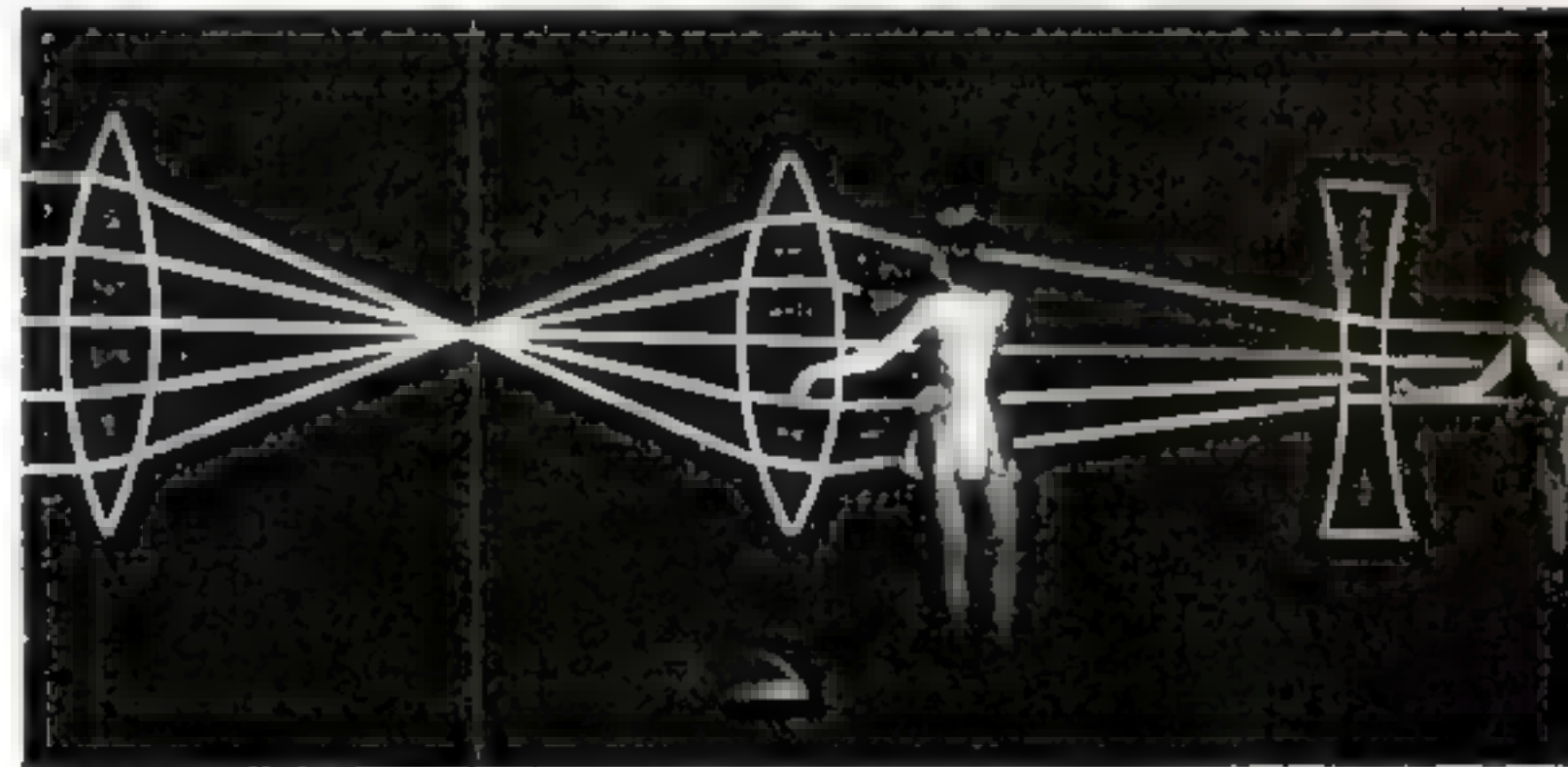
BEAMS PASSING THROUGH TOP AND BOTTOM OF CONVEX LENS ARE BENT UPWARD, DOWNWARD



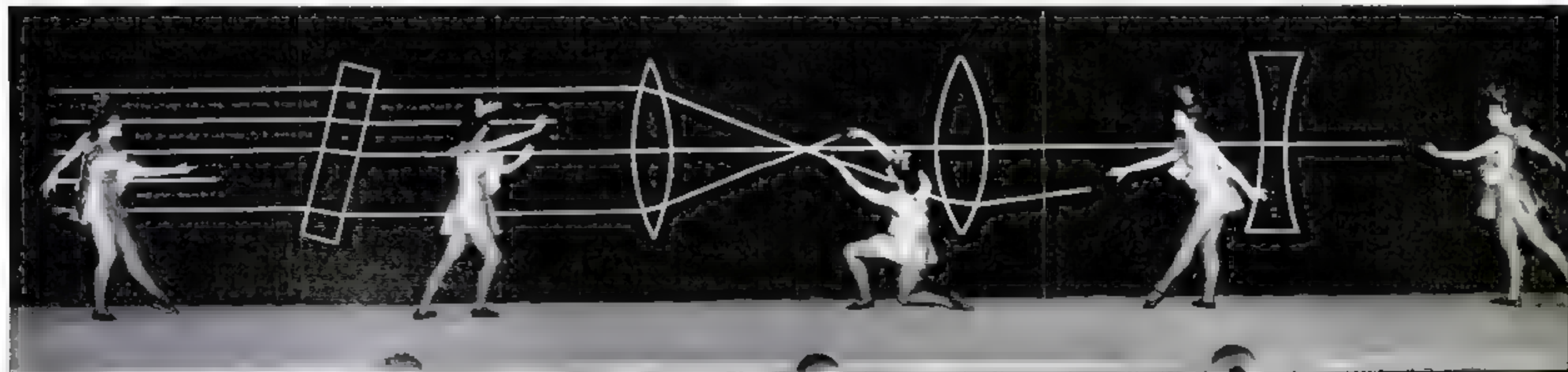
HAVING PASSED FIRST CONVEX LENS THE RAYS CONVERGE TO A POINT OF FOCUS



BEYOND FOCAL POINT THE LIGHT RAYS DIVERGE, THEN ENTER A SECOND CONVEX LENS (CENTER)



BENT BY CONVEX LENS, RAYS EMERGE PARALLEL FROM CONCAVE LENS, RIGHT



ALL FOUR OPTICAL ELEMENTS ARE SHOWN WITH LIGHT RAYS AT VARIOUS STAGES OF PROGRESS. CENTER LIGHT RAY ENTERING CONVEX LENSES AT RIGHT ANGLES IS UNAFFECTED

FLORSHEIM *Quality*

KEEPS NEW SHOES LOOKING BETTER LONGER



The DEARBORN

Quality today must be more than skin deep; it's not enough for a shoe to *look* good . . . it must *last*, through months and miles of longer rationed wear. This traditional combination of style and wear makes Florsheim Shoes the wartime choice of America's largest single group of quality shoe buyers.

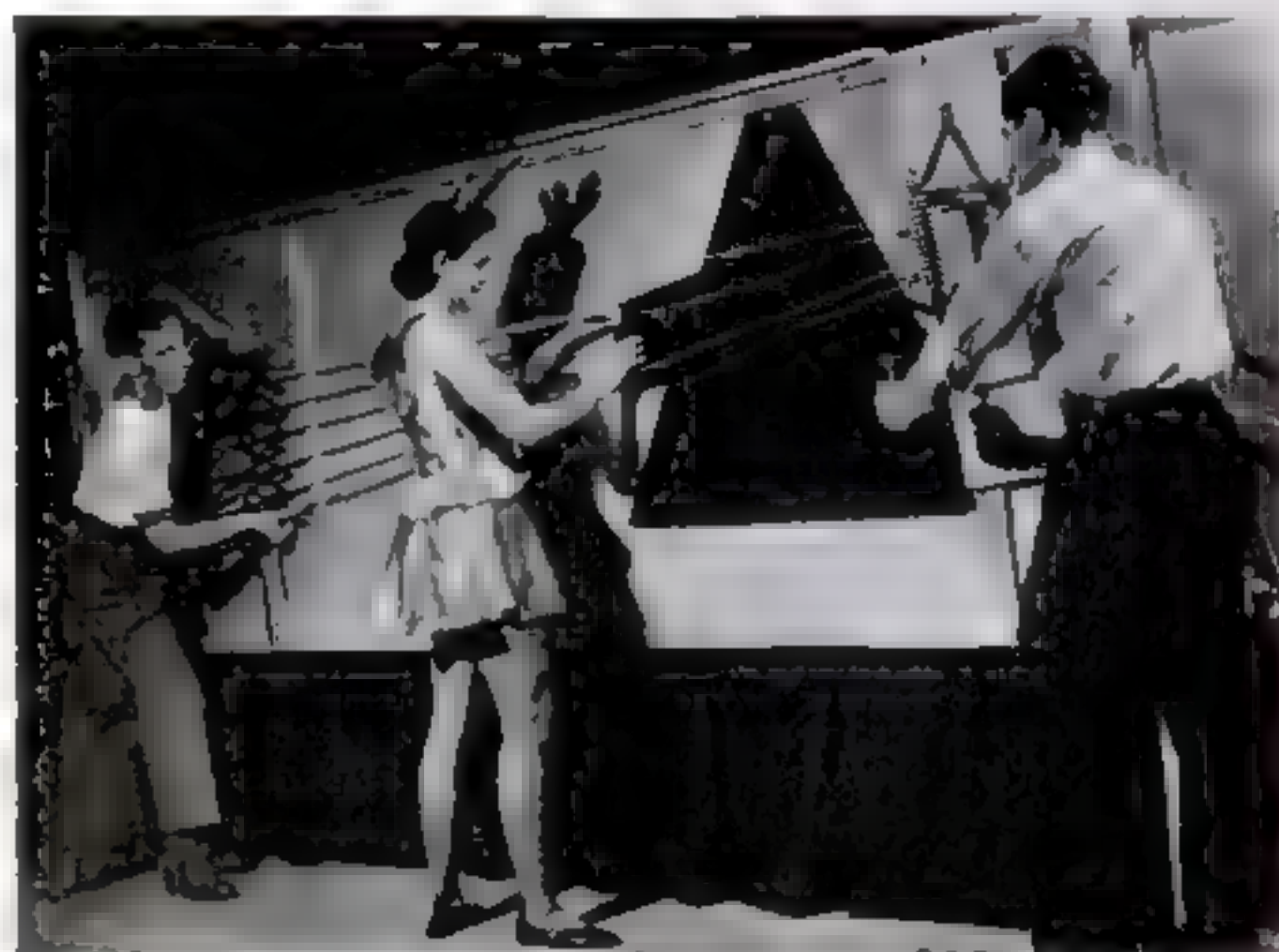
Most Styles
\$10.50 and \$11

Florsheim Shoes

THE FLORSHEIM SHOE COMPANY • CHICAGO • MAKERS OF FINE SHOES FOR MEN AND WOMEN

SPEAKING OF PICTURES

(continued)



Backstage the mechanics of giving motion to the simulated light beams are revealed. Here wires pulled by a homemade spindle carry beams through back side of prism.



White and black ribbons are continuous belts which pass through slots in the screen. As white portion of ribbon is passed through slot it emerges as beam on the other side.



Stagehand in center is standing before focal point made by converging rays. Demonstrators wore dance costumes and worked while music played to give ballet effect.



RESEARCH

IS "MOVING THE SUN"



THIS isn't as daffy as it looks. It's a true picture of what General Electric Research is already planning for your postwar home... except for one important detail:

Instead of moving your bathroom to the beach, you'll do your sunbathing in the privacy of your bathroom... with a combination of healthful ultraviolet and soft indoor "daylight"!

Research looks at tomorrow

Today General Electric Lamp Research is still at war. But looking toward the future, G-E scientists see the possibility of bringing all the healthful qualities of sunshine into your home. Light for

easier seeing. Fluorescent for the kitchen, laundry and bathroom. A sunlamp and a heat lamp over the bathtub. Germ-killing lamps in the nursery. New and better lighting all through your home... thanks to the research tradition that began with Edison's invention of the incandescent lamp back in 1879.

More light for your money

Ever since, G-E scientists have been "moving the sun indoors"... working to give you more and more light for your money. It is this continuing research that holds such bright promise for the future.

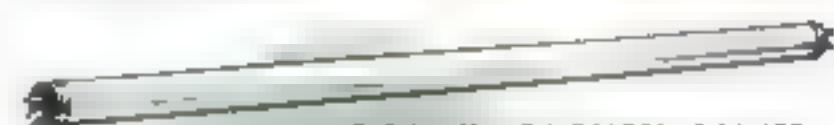
The initials G-E on a lamp... now or in the future... mean *made to stay brighter longer*.

"TO MAKE LAMPS STAY BRIGHTER LONGER" The Creed of G-E Research

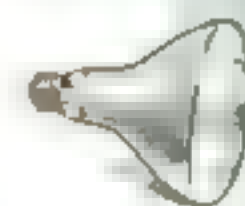
G-E MAZDA LAMPS

GENERAL  ELECTRIC

THESE G-E LAMPS WILL HELP BRING THE SUN INDOORS



G-E MAZDA FLUORESCENT LAMPS PROVIDE COOL INDOOR "DAYLIGHT"



A GENERAL ELECTRIC HEAT LAMP GIVES PENETRATING, SOOTHING HEAT



THE GENERAL ELECTRIC GERMICIDAL LAMP KILLS GERMS



THE 100-WATT G-E MAZDA SUNLAMP GIVES A MILD SUNTAN IN 5 MINUTES



STANDARD G-E MAZDA LAMP BULBS FOR GENERAL USE



BUY AN EXTRA WAR BOND

Hear the General Electric radio programs: "The G-E All-Girl Orchestra," Sunday 10 p. m. EWT, NBC, "The World Today" news every weekday 6:45 p. m. EWT, CBS.

The Secret Cabinet of Captain "X"



The men of our Navy have at their fingertips... wonders as no wizard of old ever knew. Weirdest and most variations of all is the mechanical brain that aims and fires the big guns. This secret cabinet, pictured here with deliberate fantasy, automatically plots the course of the enemy and of our attacking ship... corrects the range for every factor of speed and direction... then instantly sends the huge shells straight to their unseen targets!

To develop this mystery gunner of "The Invisible Crew" required the multiple resources of Bendix and the invaluable collaboration of the U. S. Navy. Into it went the hundred-year experience of Bendix Marine and its predecessor Cory Company. Into it, too, went contributions from many other Bendix divisions... electronics at Bendix Radio, magnetics at Pioneer, electro-mechanics at Eclipse, hydraulics and pneumatics at Bendix Products Division. Just as the Bendix Marine

Fire Control System correlates the factors of target range so the parent Bendix Engineering Conference coordinates all these specialized talents... into a single accurate aim.

The result is typical of what you may expect from Bendix, tomorrow. Out of this combined mastery in many fields of science, will come new refinements of automatic action and control for all transportation... for all industry... and for you in your home.



BENDIX MARINE DIVISION — Control Systems
BENDIX PRODUCTS DIVISION — Stromberg Carburetors, Brakes, Landing Gear, Turrets.
BENDIX RADIO DIVISION — Aircraft Navigation, Detection, Communication Systems.
ECLIPSE MACHINE DIVISION — Starter Drives.
ECLIPSE PIONEER DIVISION — Aircraft instrumentation, Starters and Accessories.
FRIEZ INSTRUMENT DIVISION — Meteorological.
MARSHALL ECLIPSE DIVISION — Brake Linings.
PACIFIC COAST DIVISION — Radio, Accessories.
SCINTILLA MAGNETO DIVISION — Ignition Systems.
ZENITH CARBURETOR DIVISION — Carburetors

LIFE'S REPORTS

SHOOTING THE LINE IN THE RAF

by JOHN NEILL

London

A young pilot leaned forward in his armchair in the RAF mess and glared indignantly at his doubting questioner.

"Not low?" he exclaimed. "Not low? I came back across the bloody Ditch so low that my air-speed indicator tube was furrowing the water and the dial began to read in knots!"

A chorus of hoots arose.

"There I was, upside down . . ." chanted someone.

"Line, line!"

"One for the line-book!"

"Witness!"

"Witness!"

The protesting pilot was then forced to write his statement in a large book picked up from a nearby table and to sign and date it. The witnesses as solemnly affixed their signatures. And since the pilot was in funds, instead of depositing a lone shilling in the company mess fund, he was forced to stand a round of drinks for six other occupants of the mess. This ritual was his punishment for "shooting a line."

A "line" in RAF parlance is any vocal display of braggadocio, conceit or exaggeration; and a line, however witty, is severely frowned on and instantly punished in the manner described above. Americans, brought up in the Paul Bunyan tradition of tall tales, have a gusto for deliberate hyperbole. The British, on the contrary, whose tradition is notoriously that of understatement, though they may secretly appreciate the power of literary fantasy exemplified by a line, are none the less pitiless in repressing it.

The proper epigrammatic answer to a line is an ironic excerpt from the granddaddy of all lines: "There I was, upside down over Hamburg, flak to the right, fighters to the left, sweet nothing on the clock except the maker's name, my navigator taking astro shots through the flare chute!"

The punishment for line shooting is determined by regulations as formally drawn up as those of any club. In one RAF station, these are the officially posted rules:

"Fines are imposed for lines shot deliberately or inadvertently, and the money collected shall be placed by the treasurer in the general funds of the club.

"All members may be asked to subject themselves to a fine.

"All lines shall be recorded with the name of the perpetrator, the

CONTINUED ON NEXT PAGE



THE LINE-BOOK GETS A NEW TALL TALE; WITNESSES GET ROUND OF DRINKS

"Thank you, darling, for this lovely ring that brings the glory of starlight to my hand . . . our Keepsake . . . the eternal symbol of the love we share."



No other gift
can mean so much!

it's a
GENUINE-REGISTERED
Keepsake
DIAMOND ENGAGEMENT RING

Through six decades the name Keepsake has represented fine standards of quality in diamonds and true distinction in ring design. The Keepsake Certificate of Registration and Guarantee is your protection against an unwise choice. At your Keepsake Jeweler . . . \$100 to \$3500.



Rings enlarged to show details.

<p>HYANNIS Set 237.50 Engagement Ring 175.00</p>	<p>WESTBROOK Set 525.00 Engagement Ring 450.00</p>	<p>WAVERLY Set 400.00 Engagement Ring 300.00</p>
<p>VENICE 250.00 Also at \$550 and 975</p>	<p>LAWRENCE Set 450.00 Engagement Ring 350.00 Also at \$600, 750 and 975</p>	<p>MALDEN Set 525.00 Engagement Ring 400.00 Also at \$550, 750, 975 and 1450</p>

If it is a "Keepsake"
the name is in the ring.



Keepsake Diamond Rings, A. M. Pond Co., Inc.
214 S. Warren St. Syracuse 2, N. Y.
Please send the book "The Etiquette of the Engagement and Wedding," with supplement on "War-time Engagements and Weddings," illustrations of Keepsake Rings and the name of the nearest Keepsake Jeweler. I enclose 10c to cover mailing.

Name _____
Street and No. _____
City _____ 4-17-44

My hair used to look like this. It stood on end like hay, when it dried out after combing. That's because I soaked it every day with water as a dressing.



Then my hair looked like this, when I went to the other extreme and slapped it down with "stuckum." It shone like old blue serge and left grease spots on chairs and sofas.

My barber knows best



My hair looked like this, when I took my barber's advice and tried Kreml for a happy medium. Never sticky or greasy—never drying to hair—Kreml gives my hair a chance to feel and look its natural best. Try Kreml and see why thousands declare—Kreml is right for better-groomed hair!

KREML HAIR TONIC



IMPORTANT: Kreml brings *all* these benefits—makes hair feel softer, more pliable, easier to comb. Removes ugly dandruff scales and relieves itching of scalp they cause. Kreml also relieves breaking and falling of hair that's dry and brittle due to excessive daily use of water as a dressing. Use Kreml daily as directed on the label—begin today!

LIFE'S REPORTS (continued)

date and the names of witnesses.

¶ A line must be overheard by two or more persons before it can be the subject of a fine. If one person detects another in the shooting of a line, he may ask the delinquent to repeat it in front of a third person.

¶ "The line-book shall be open for examination at all times (for warning or amusement), and a statement of accounts shall be produced at the end of each month or on demand from the treasurer."

A recent inspection of line-books in RAF messes discloses a wide variety of tall tales for which fliers have had to pony up their shilling. Boasts range from alcoholic capacity ("I'm going down to the medical officer to have my alcohol tested for blood") to close-formation flying ("Close? I was so close that I came in on the instruments of the plane in front of me").

The greatest number of lines shot seems to fall into what might be called the operational category. There was the Lancaster pilot who replied with artful puzzlement to the intelligence officer interrogating him, "Well, I don't recall just when the third motor was shot away, sir." Another favorite topic of operational lines is the thickness of flak. For example:

"The flak was so thick we had to fly on instruments."

"... so thick we lowered our wheels and taxied home."

"... so thick that George [the automatic pilot] baled out."

Ability to fly low without crashing produces another series:

"I can't fly low enough in a Hudson—it doesn't have flush riveting."

"Bill was so low that the only thing you could see was his wireless mast, acting as a periscope."

"During the low-level raid on Stettin, we were so low crossing Holland that it looked as though we were going to crash a barn; but fortunately the milkmaid was a sympathizer and opened the doors so we could fly through."

Many lines are produced in sheer self-defense. It was a navigator taken to task for guiding his crew far from their proper home base who excused himself thus: "Well, you see, when I was trained in Canada, we used not to bother with navigation, we just flew on Indian smoke signals." Or the fighter pilot who, while "having a strip torn off him" for almost fatally shooting up his own squadron,



The patented filter is the heart of Medico Filtered Smoking. Its 66 mesh-screen baffles whirlpool smoke—retain flakes—and absorb moisture. When filter is discolored, it has done its job. Discard it and put in a fresh one—costs only ONE CENT. Enjoy the benefits of Frank Medico Pipes, Cigarette and Cigar Holders.



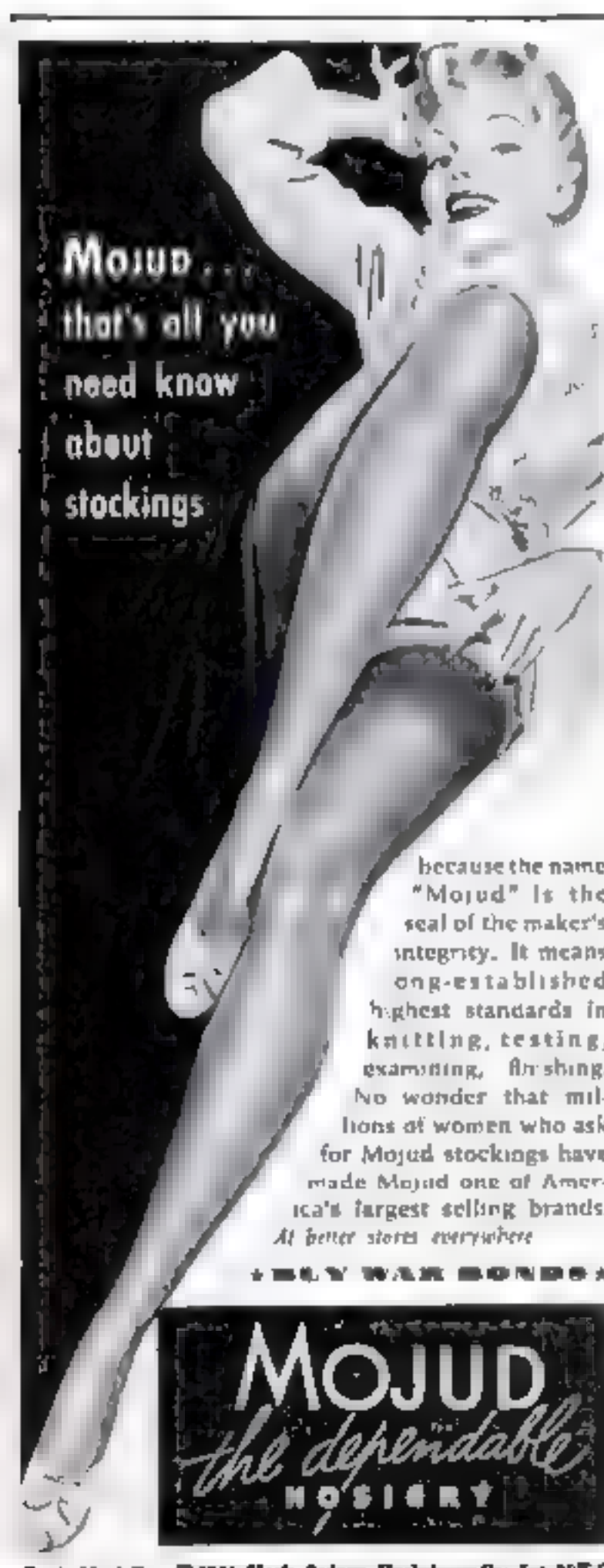
BICYCLES Serve THE SERVICES...

U. S. Armed Forces, Auxiliary Services, and the military needs of our Allies have first call on "America's FIRST Bicycle." After Victory, however, a new, finer-than-ever line of Columbia bicycles will be ready. Meanwhile, buy War Bonds to have and to hold. The Westfield Manufacturing Company, Westfield, Massachusetts





Pro-phy-lac-tic
NYLON
Tooth Brush



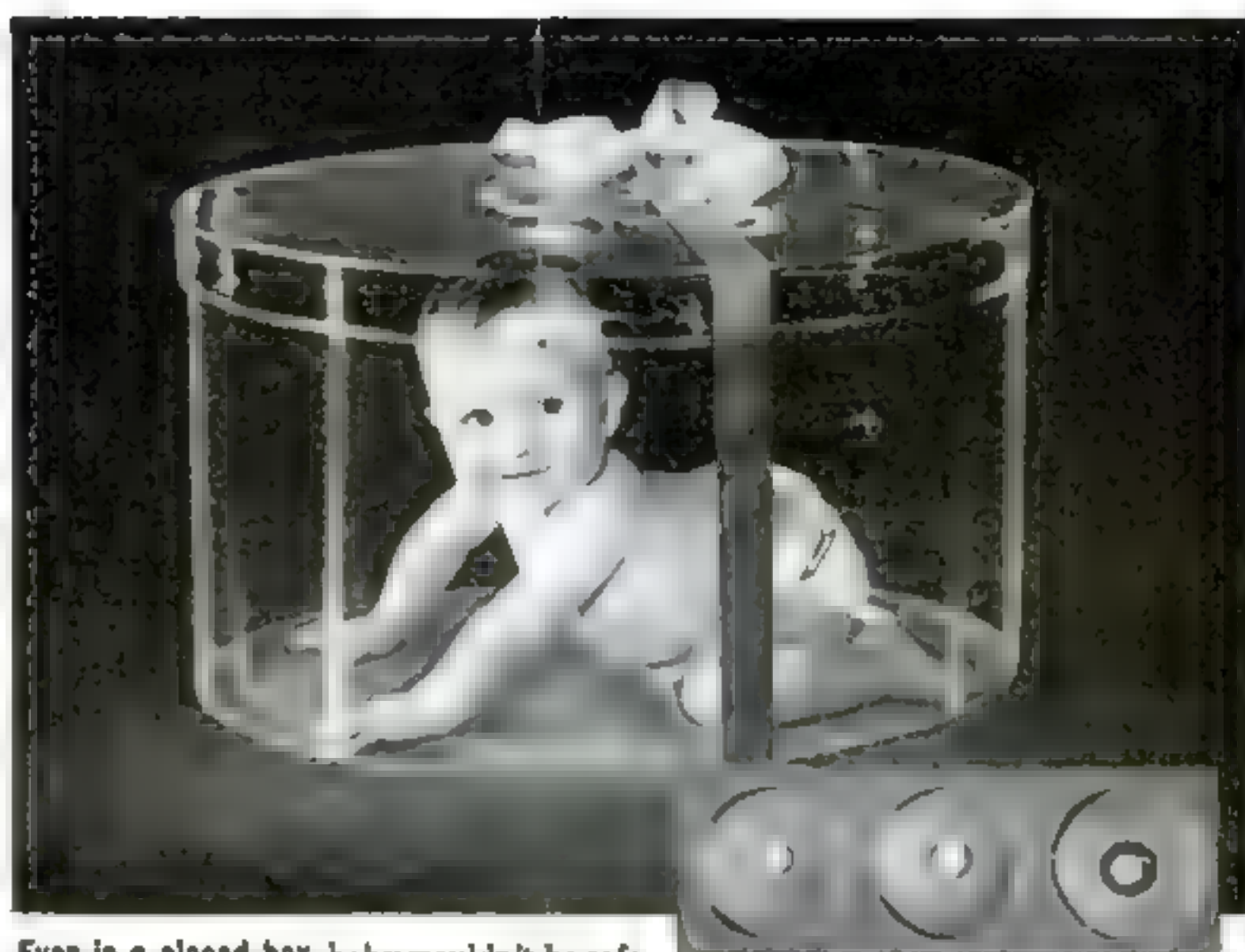
LIFE'S REPORTS (continued)

replied to the question, "Didn't you see them wave their hats?" by protesting, "No, I was flying on instruments."

Other lines are sheer fantasy. Favorite of many RAF messes is the line shot by a Coastal Command pilot, definitely a live type, who was skimming along the Bay of Biscay so low that he was able to lean out and swab a dab of green paint over the periscope of an Italian submarine. The sub's commander, thus deceived into believing himself still underseas, kept rising and rising until his submarine was 3,000 feet in the air. At that point the waiting pilot shot him down.

RAFmen take a particularly dim view of any of their fellows who inadvertently find themselves in the news. For such offenders, the normal shilling fine is raised on the following sliding scale: 1) Name in newspaper: 2 shillings sixpence; 2) Picture in paper: 3 shillings; 3) Appearance in newsreel: 10 shillings. As might be expected such penalties lead to becoming modesty about publicity. But modesty itself can boomerang, of course, and ironic was the plight of the dashing flier who was line-fined for saying, "Oh, I don't bother to keep press-cuttings about myself any more."

Greatest of all line shooters is an imaginary character named Pilot Officer Prune, whom training officers regularly cite as a horrid example to their fledglings. The simplicity of P/O Prune's version on the thickness of flak has about it a beautiful finality: "It was so thick I got out and walked home on it." P/O Prune is similarly proud of low flying, so low that his "navigator had to stand up to see over the waves." Fog on the landing field, he describes as "Thick? The visibility was so bad I had to ask for radio-directional flashes to taxi to the control tower." Believing that "a good landing is any landing you can walk away from," P/O Prune was once heard to boast: "When I first touched down, I bounced so high I had to slip off altitude to get in." Anxious to graduate from trainers, P/O Prune remarks contemptuously of the Miles Magister training plane: "I was flying along the main road in a Maggie with a strong head wind when an Austin 7 hooted and overtook me." And even after graduating, P/O Prune still boasts, "I can negotiate any balloon barrage. I bank over vertically and fly through on the wing tip."



New differences in baby powders!



Baby's arms and legs are always in motion, at play and often in sleep. He needs the smoothest baby powder to guard against chafing! Which powder is smoothest is proved by round photos above; they show 9 leading baby powders seen thru microscope. Mennen (far right) is smoother, finer in texture. That's due to special "hammerizing" process which makes Mennen Baby Powder the best protection against chafing. Delicate new scent keeps baby lovelier.



ALL ALONE? (because your hair is gray?)

**Clairol banishes every trace of gray or graying hair . . . swiftly, surely, beautifully*

No one means any harm in overlooking you when exciting things are being planned. It's just that your gray hair makes your friends think you're too old to enjoy gay times any more.

And isn't that absurd! Why, you feel as young as you ever did! Your face and figure are still youthful, too! So why not do the sensible thing and add young-looking color radiance to your hair . . . "naturally, with Clairol."

CLAIROL IS DELIGHTFUL—Your hair luxuriates in a froth of iridescent bubbles. And quickly—almost before you know it—it's clean, silky-soft and permanently colored. Every trace of gray hair has vanished!

CLAIROL IS DEPENDABLE—You don't have to be afraid when you use genuine Clairol. It is made from the purest, most expensive ingredients obtainable. Each of Clairol's 23 natural-looking shades is laboratory controlled, under skilled specialists.

CLAIROL KEEPS YOUR SECRET—It completely avoids that brassy look of old-fashioned dyes. Clairol shades are uniform . . . assuring a perfect match. NO OTHER PRODUCT gives such natural-looking results.



COPYRIGHT 1944, CLAIROL, INC.

REFUSE SUBSTITUTES that can't give you Clairol's beautiful results. Better Beauty Shops feature genuine Clairol. A Clairol treatment costs you no more!

FREE "11 Secrets for Beautiful Hair." This booklet tells you how to give your hair radiant beauty . . . scientifically. Just write:

CLAIROL, INC., DEPT. L-29, P. O. BOX 1435
STAMFORD, CONN.

*Caution: Use only as directed on the label



MOTHERS—protect every minor cut with Curity SULFA-thia-zole HANDI-TAPE



Someone's Always Getting Hurt

You can't watch the kids every minute . . . even Dad gets careless now and then . . . and your kitchen's full of chances to get cut or burned. Don't let even the tiniest scratch go unprotected. Dangerous infection lurks in every untreated wound.



So Have This Handy

Not just one box in the medicine chest . . . but in the kitchen, laundry, garage . . . ready instantly to give you and yours the added protection of SULFA-THIAZOLE for every minor cut, blister and abrasion. Get several inexpensive boxes of Curity SULFA-thia-zole HANDI-TAPE at almost any drugstore

A Product of

BAUER & BLACK

Division of The Kendall Company, Chicago

Buy Extra War Bonds

Ask for Curity
HANDI-TAPE
Adhesive Bandage



LIFE'S COVER: Esther Williams, who is widely regarded as Hollywood's prettiest actress, was only 15 when she won her first national swimming championship. Esther gave up amateur swimming because "you can't eat medals." Her screen debut was in *Andy Hardy's Double Life*. Her latest movie is *Bathing Beauty*, new M-G-M musical. For pictures of *Bathing Beauty's* aquaballet turn to page 77.

EDITOR

Henry R. Luce

MANAGING EDITOR

John Shaw Billings

EXECUTIVE EDITORS

Daniel Longwell, Wilson Hicks

ASSISTANT EDITOR

John E. Jessup

ART EDITOR

Warren Paxton

SENIOR EDITORS: Noel F. Busch, Roger Butterfield, David C. Joseph, Kastner, Joseph J. Thornhill, Jr.

ASSOCIATE EDITORS: Lincoln Barnett, Robert Coughlan, John Field, George Frasier, John Hersey, Richard Lattin, Gertrude P. Miller, Maria Serrano, Marjorie Van-der-Grift, William W. Watt, Associate Editors: Dennis Flanagan, Caroline Larson, Lisbeth de Moraine, John Purcell, Allan Rixey, Jean Speiser, Philip Wootton, Jr.

SENIOR RESEARCHERS: Bernice Shristo (Chief), Ruth Adams, Margaret Bassett, Marion Bradley, Earl Brown, Tom Carole, Gertrude Epstein, Suzanne Hammond, Shirley Herzog, Elaine Brown, Kester Helen Morgan, Joanne Perkins, Katharine Scherman, Shelley Smith, Dorothy Sterling, Marion Stevens, A. B. C. Whipple.

RESEARCHERS: Mathilde Benoit, Lee Edinson, Faith Fay, John Kay, Frances Levison, Adeline M. H. Betty, Moisson, Helen Peirce, Elizabeth Revere, Jo Sheehan, Burton Van Vorst, Joan Werblin.

STAFF PHOTOGRAPHERS: Bart Sheridan and John Morris (assistant picture editors), Myron Davis, Alfred Eisenstaedt, Eliot Elisberg, J. R. Eyerman, Andreas Feininger, Marie Hansen, Bernard Hoffman, Wallace Kirkland, Bob Landry, Tom McAvoy, Harold Smith, Ralph Morse, Carl Mydans, John Phillips, George Rodger, David Scherman, Frank Scheraga, William Shiraz, George Silk, Peter Stackpole, George Stock, William Vandivert, Hans Wild.

PICTURE BUREAU: Dorothy Hoover (Chief), Mary Carr, Alice Crocker, O. A. Graubner, Natalie Kasek, Gertrude Lashby, Ruth Lester, Maude Mear, Margaret Sargent, Grace Young.

LAOYUTS: Chas. Tudor, Michael Phillips.
NEWS BUREAUS: David W. Holburn, Jr. (Chief), Helen Robinson (Assistant), Herbert Brown (Detroit), Bernard Clayton (Honolulu), Gene Cook and Robert Hays (Chicago), Henry Hough (Denver), William S. Howland (Atlanta), Sidney L. James (Los Angeles), Will Lang (Algeria), Walter Graebner (London), Felix Selzer, Jr. and Ray Mackland (Washington), Holland McCombs (Rio de Janeiro), Paul O'Neil (Seattle), Robert deLoos (San Francisco).

PUBLISHER

Roy E. Larsen

GENERAL MANAGER

Andrew Heiskell

ADVERTISING DIRECTOR

Shepard Spink

Subscriptions and all correspondence regarding them should be addressed to CIRCULATION DEPT., 350 East 57th Street, Chicago 18, Ill. LIFE is published weekly by Time Inc.—Editorial and Advertising offices: TIME & LIFE Bldg., Rockefeller Center, New York 20, N.Y. — Maurice T. Moore, Chairman; Roy E. Larsen, President; Charles L. Stillman, Treasurer; David W. Brombach, Secretary.

Subscription Rates: One year, \$4.50 in the U.S.A., \$5.50 Canadian dollars in Canada including duty; \$6.00 in Pan American Union; elsewhere, \$10. Single copies in the U.S.A., 10c; Canada, 15c; U.S. Territories & Possessions, 15c; elsewhere, 25c.

Change of Address: Four weeks' notice required. Changes cannot be made without old address as well as new. Please furnish an address stencil impression from a recent issue if you can, and note postal zone number for your new address if city requires it.

KEEP YOUR TOILET CLEAN



The Easy Way

Don't think of cleaning ugly stains and discolorations from toilet bowls by old, messy, hand methods. The

drudgery of using ordinary cleansers plus disinfectants and scouring has been replaced by Sani-Flush, which cleans the quick, easy, sanitary way. Use it at least twice a week. Each application removes many recurring toilet germs and a cause of toilet odors.

Sani-Flush is totally unlike ordinary soaps and cleansers. It works *chemically*—even cleans the hidden trap. Safe with septic tanks and in toilet connections. (See directions on can.)

Sold everywhere in two convenient sizes.



Sani-Flush



• QUICK
• EASY
• SANITARY

BUY MORE WAR BONDS



AT ALL
10c STORES

FOREST CITY PRODUCTS, INC., CLEVELAND 19, OHIO

treat 'em rough!



WILL NOT SLIP
WEAR LONGER

BILTRITE
Rubber Heels

★ At Leading Shoe Builders Everywhere ★

"MY GANG KNOWS ..IT'S THE SAME FINE PARD!"



This is PARD before Dehydration
1. Here is how the Pard we're making right now would look if we could bring it to you in pre-war form—in cans...

NATURAL COLOR PHOTOGRAPHS



Two PARD DEHYDRATED
water added ready to serve
Here is the same fine Pard as shown in 1—except its moisture has been removed by scientific dehydration, then later restored before serving by the simple addition of water.

Dogs aren't easily fooled—they *know* what they want. So you can't blame 'em for liking Pard Dehydrated—they recognize it instantly as their old favorite. Richly tempting and palatable!

Now as before, Pard is a well-balanced blend of fresh meat by-products and other health foods. Only the moisture is removed . . . slowly

. . . and *scientifically* by an exclusive Swift process of low temperature dehydration (under 200° F.). When you restore it by adding water, all the nourishing goodness—the fine food values your dog needs for robust health are provided.

Pard Dehydrated is thrifty as ever to feed—start your dog on it today!

**BUY
WAR BONDS**

"The family dog...in life our firmest friend, the first to welcome, the foremost to defend. Let's treat him well."

*** PARD DEHYDRATION IS EXCLUSIVE!** It starts with fresh meat by-products and other wholesome ingredients. Then all moisture is slowly removed in a wholly new way (pat. applied for) that protects food values, leaves Pard's original goodness intact. There's no other dog food like it!

LIKE FRESH-GROUND FOOD,

Pard before dehydration is blended into a well-balanced, appetizing formula—rigidly adhered to and nutritionally excellent.



"FRESH FOOD" GOODNESS IS RESTORED IN 20 MINUTES

Put Pard Dehydrated in a Mason jar with equal amounts of water. In 20 minutes the "fresh food" goodness will be restored. If kept overnight, refrigerate.



YOUR DOG LIKES IT

because he recognizes it as Pard, his long time favorite. You simply add water before serving.



OVER HERE!



Fortified against Fatigue by Victory Vitamin C, every body "over here" must be armed with red-blooded vigor—to dig into his war job like a Commando!

OVER THERE!



When Danger Strikes! Bodies that are well armed with Victory Vitamin C fight weakness, deadly germs, colds, infection. Wounds and cuts are more sure to heal!

OVER HERE!



For Fast Growing America today, tomorrow—and always. Vitamin C can't be stored in the body. For healthy, sturdy growth, every body needs vitamin C every day!

OVER THERE!



Because a Commando's muscles must be hard as nails—every tissue firm—every bone in his body solid and strong... he gets vitamin C every day!

THESE are the days!

EVERYWHERE!



FIGHT Infections! FIGHT Fatigue!
FIGHT Weakness! FIGHT Colds!
FIGHT Absenteeism!

...the days when all America must have
VICTORY VITAMIN C



Under skies alive with screaming dive bombers—over seas infested with treacherous wolf packs—millions of cans of Florida Grapefruit Juice have followed our boys to the ends of the earth—to supply them with precious vitamin C.

"Over There"—and Over Here—America is on the attack! These are the days when every body must be fortified with vitamin C. That's why grapefruit juice is shipped to all front-line fighters... And why Uncle Sam has planned to assure a supply for you. Every day in 1944—every day in the Peace to come—this is a vitamin needed to fight fatigue, infections, colds. So always on your marketing list, put grapefruit juice at the top!

**IT'S THE
COMMANDO FRUIT!**

Rich in vitamin C that Commandos get daily! 7 days a week—365 days a year—these are the days to fortify all with the Commando Fruit!

AND 2 OTHER JUICES
—RICH IN VITAMIN C!

Although Uncle Sam has set aside the entire supply of canned grapefruit sections, and most of the canned orange juice, blended juice, and concentrates for the armed forces—some orange juice and blended juice is available for civilians. Two delicious juices—both rich in vitamin C!



FLORIDA CITRUS COMMISSION • Lakeland, Florida



FLORIDA GRAPEFRUIT JUICE

RICH IN **VICTORY VITAMIN C**

COPYRIGHT UNDER INTERNATIONAL COPYRIGHT CONVENTION. ALL RIGHTS RESERVED.
UNDER PAN-AMERICAN COPYRIGHT CONVENTION. COPYRIGHT 1944 BY TIME INC.

CONTENTS

THE WEEK'S EVENTS

Tarawa Revisited	25
Editorial: Soldiers and Civilians	32
Spring Snow in Central Park	33
Dead Soldiers' Effects	34
Mr. Willie News Out	36
Wisconsin Primary	38

ARTICLE

America's World Purpose, by William Ernest Heching	102
--	-----

CLOSE-UP

A. P. Herbert and the Thames Patrol, by Joseph J. Thorndike Jr.	56
---	----

PHOTOGRAPHIC ESSAYS

Joe Stilwell's War	67
Volcanoes: Paricutin and Vesuvius	88

ARMY & NAVY

British Rocket Gun	41
--------------------	----

SPORTS

The Young Family	47
------------------	----

MOVIE

"Nothing Beautiful"	77
---------------------	----

MODERN LIVING

Hedda Hopper's Hats	98
---------------------	----

ANIMALS

Tiger Cubs	115
------------	-----

OTHER DEPARTMENTS

Letters to the Editors	2
Speaking of Pictures: Ladies Demonstrate Light and Lenses	12
LIFE's Reports: Shooting the Line in the RAF, by John Meill	17
LIFE Goes to a War Plant Beauty Dance	122
Pictures to the Editors	126

ALL MATERIAL, WHICH IN THE OPINION OF THE EDITORS INVOLVES MILITARY SECURITY, HAS BEEN SUBMITTED TO COMPETENT MILITARY OR NAVAL AUTHORITY FOR REVIEW AS TO SECURITY.

The cover and entire contents of LIFE are fully protected by copyrights in the United States and in foreign countries and must not be reproduced in any manner without written permission.



LIFE'S PICTURES

LIFE's William Vandivert, shown at the left with a simian friend, spent a good part of last month traveling in Burma's Hukawng Valley with Lieut. General Joseph Stilwell and his Chinese troops. The character of this strange jungle warfare is shown in his pictures on pages 67-74. Vandivert has been in the China-Burma-India theater for LIFE since November 1942. His most memorable story during the time he has been there was his coverage of China's remote province of Sinkiang.

The following list, page by page, shows the source from which each picture in this issue was gathered. Where a single page is indented to several sources, credit is recorded picture by picture (left to right, top to bottom) and line by line (lines separated by dashes) unless otherwise specified.

COVER—RALPH CRANE from B. E.	77 through 82—RALPH CRANE from B. E.
6—IVAN ALBRIGHT courtesy DR. ALBERT TORMEY	85, 86—ELIZABETH FISHERMAN
8—USAAFTC	88—DR. WILLIAM FISHAG-U. S. NATIONAL MUSEUM
11—M-G-M—C. E. HUNSHAW	89—FREDERICK H. BUCHHE—AMERICAN MUSEUM OF NATURAL HISTORY
12—NINA LEEN-PIX	90—CLINT MURPHY—ST. LOUIS POST DISPATCH
13—NINA LEEN-PIX exc. bot. ROWS	91—DR. J. TRINIDAD HERNANDEZ from THREE LIONS, RAMIRO ROBLES RANGE from THREE LIONS, HUGO BREHME from THREE LIONS—DR. WILLIAM FISHAG-U. S. NATIONAL MUSEUM—HUGO BREHME from THREE LIONS 2.
14—NINA LEEN-PIX	92, 93—EDWARD CLARK exc. 8 ft. DR. WILLIAM FISHAG-U. S. NATIONAL MUSEUM, 20 ft. HUGO BREHME from THREE LIONS
17—FRANK SCHERKHEL	94—Drawings by JAMES LEWICKI
25 through 31—J. R. EVERMAN	95—1 and 2 ft. drawings by JAMES LEWICKI—DR. WILLIAM FISHAG-U. S. NATIONAL MUSEUM—EDWARD CLARK
32—LARRY PENNINGTON	96—GEORGE RODGER—POBLY from D. S.—GEORGE RODGER
34, 35—WALLACE KIRK AND—JACK WILKES	97—OFFICIAL U. S. NAVY PHOTO
36—EDWARD CLARK	98, 99, 100, 101—RALPH CRANE from B. E.
4—INT.—P. I.	102—BARRETT WALLAHER
42—BRITISH OFFICIAL PHOTO—ACME	105 through 121—ALFRED EISENSTEINT-PIX
44—BRITISH OFFICIAL PHOTO—BRITISH CONSINE	122, 123, 124—PETER STACKPOLE
47—JACK WILKES	125—LUNG WORTH for WARNER BROS.—COURTESY DINGO MAGNETIC SEPARATOR CO.
48—WALLACE KIRK AND—JACK WILKES—JACK WILKES	
50—WALLACE KIRK AND—JACK WILKES	
52—JACK WILKES	
55, 56—HANS WILD	
58—Q LONDON DAILY HERALD	
60—HANS WILD	
62—METHUEN & CO. LTD., LONDON	
67 through 74—WILLIAM VANDIVERT	

ABBREVIATIONS: BOT., BOTTOM; CEN., CENTER; EXC., EXCEPT; INT., LEFT; T., TOP; B. E., BLACK STAR; INT., INTERNATIONAL; M-G-M, METRO-GOLDWYN-MAYER; P. I., PICTURES, INC.; USAAFTC, U. S. ARMY AIR FORCES TRAINING CORPS—W. W., WIDE WORLD

Army that Fights... and Army that Farms

WHEREVER WHEELS TURN
Delco-Remy
ELECTRICAL EQUIPMENT
OR PROPELLERS SPIN

★
FOR VICTORY
BUY
WAR BONDS
★

Delco-Remy Division of **General Motors**
★ AUTOMOTIVE ★ AIRCRAFT ★ TRACTOR ★ MARINE ★
Electrical Equipment and Delco Batteries



O. M. TOBEY of Sonotone's Evanston, Ill., office is typical of the fast-growing army of devoted men and women who have found a fascinating life-work in helping other people hear better. After a thorough training, Consultant Tobey was established in his own office at Evanston where news-photographer Korling's picture shows him reviewing the case history of one of the many Sonotone wearers he is privileged to serve. As the right men become available, they will be given the same careful, specialized training and located in your community.

YOU GET YOUR HEARING FROM A MAN... NOT A HEARING AID!

The idea that a man can walk into a store, have a hearing aid wrapped up, take it home and start hearing, may sound quite plausible to one who doesn't know the facts about hearing, but the truth of the matter is that merely buying a hearing aid doesn't mean that you are going to hear better.

It's the way your hearing aid is fitted and personalized to your hearing needs... the guidance you get in the early days while you are learning how to use it... the interested service you get to make sure your hearing is never interrupted... that's how you get better hearing! And of course, service like that can come only from a man who has been trained to give it!

Realizing the need for such a man, Sonotone began, 10 years ago, to develop the Sonotone Consultant. It wasn't easy. It takes a good head, self-sacrifice, interest in helping other folks, as well as rigorous training to make a Consultant. But today there is a nation-wide organization of such men. They aren't salesmen. They have no medical advice to offer (that's your doctor's province!). But they are technical specialists with such a thorough training in the fitting and servicing of hearing aids that... well, it's just fantastic to expect any clerk in any store to match it!



For example, Consultant Tobey's training begins in "school", where over a period of weeks, Hal T. Boulden drills his little class in the fundamentals of hearing losses and how they are measured, fitted and serviced.



Next comes a period of apprenticeship where under the watchful eye of his instructor, Tobey is taught how to interview people coming into the office and how to deal with the many psychological problems encountered in hearing troubles.



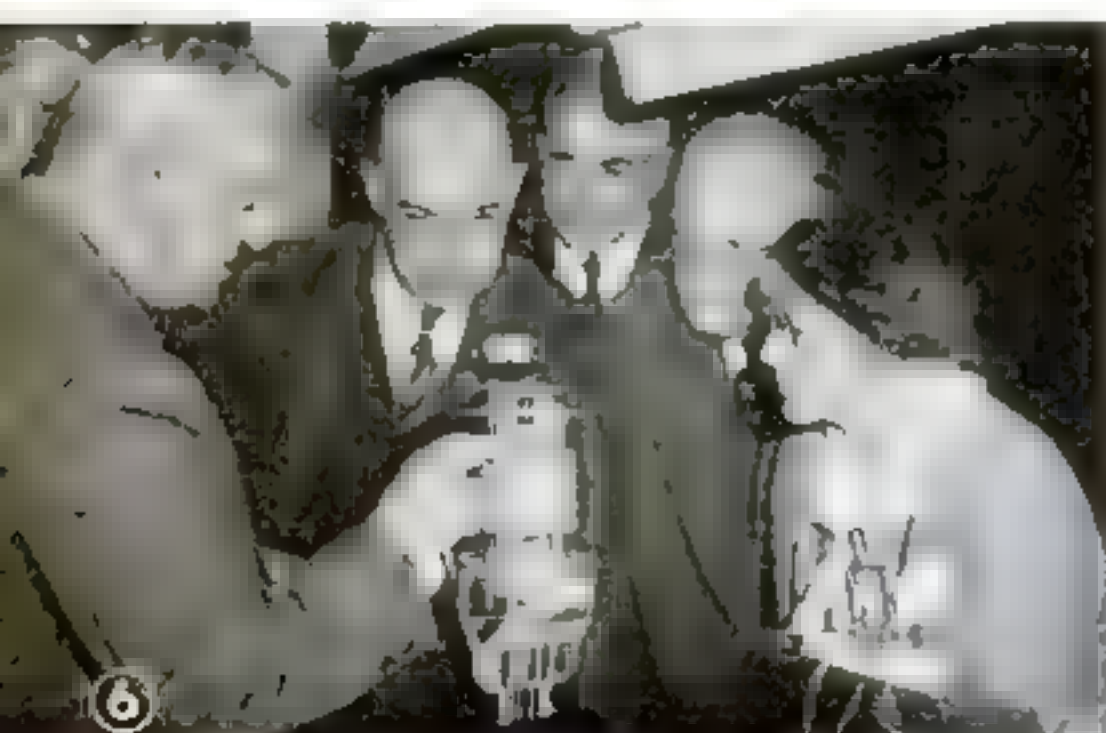
Because the careful measurement of a hearing loss is so vital to its proper fitting, Instructor Boulden supervises every Audiogram Tobey makes in his training days. An accurately made Audiogram has much to do with a successful fitting.



Night after night, Tobey spends poring over specialized courses of study. These courses cover such subjects as the measurement of hearing losses, the interpretation of audiograms, the effects of a hearing loss on speech, personality, earning power, etc.



When opportunity permits, post-graduate courses are given at the Elmsford laboratories. Here the research engineers lecture on the scientific principles of the hearing aid, new trends in design, new fitting techniques.



With an enlarged model, Paul Schwerin, head of the vacuum tube production, explains to visiting Sonotone consultants the working of the vacuum tubes used in Sonotones. Every detail of the hearing aid and its operation is fully explained.



Such training is your guarantee of getting the best hearing present-day science can give you... but there is another guarantee, unique in the hearing aid industry, that is worth looking into because it seeks to assure you **UNINTERRUPTED HEARING** for the rest of your life. Ask about it.

SONOTONE

A personal service that seeks to give you **BETTER HEARING** *FOR THE REST OF YOUR LIFE*

Accepted by the Council of Physical Therapy of the American Medical Association

There are over 150 Sonotone offices. The office nearest you is listed in your local telephone directory. Phone for information or write SONOTONE, ELMSFORD, N. Y. In Canada: write 229 Yonge St., Toronto. In England, 144 Wigmore St., London, W. 1. Also available in the world's principal countries. Ask for a free copy of "Hearing Through the Years".

© 1946, Sonotone Corp.

BUY MORE WAR BONDS TODAY!



ON BETIO ISLAND, WHERE THE TREES WERE STRIPPED BY BOMBARDMENT, ONLY SHADE IS IN TENTS AND SHEDS. JAPANESE PILLBOXES HAVE BEEN FLATTENED BY BULLDOZERS

TARAWA REVISITED

FOUR MONTHS AFTER HISTORIC BATTLE ATOLL IS BUSY AND BEAUTIFUL PLACE

Photographs for LIFE by J. R. Eyerman

Since the great battle of Nov. 20-23, time and American occupation have brought about marvelous changes on the atoll of Tarawa. At first construction men made it into one of the most powerful bases of the American front in the central Pacific. Then they began making it something like home. They built furniture out of packing cases, neat picket fences for the barracks areas, shower baths, even a tennis court and an officers' club. A few weeks later they brought in dozens of high-powered American conveniences: refrigerating plants, telephone systems, electric generators, laundries, water purifiers, clippers, machines, movies and portable drinking fountains. In

short, the Americans had brought their standard of living with them to Tarawa. Exactly what kind of a place they made out of the atoll is shown in the pictures on these pages, made by LIFE's J. R. Eyerman four months after the marines won their beachhead.

Contrary to general impression, not all of Tarawa was a shell-pitted waste after the battle. Only Betio island, where the Japanese had built their main system of fortifications, had been given the meat-grinder treatment later to become famous at Kwajalein and Eniwetok. Even Betio has been cleaned up and turned into a busy military establishment (see pic-

ture above). During all of the fighting not one of the atoll's 3,000 natives was killed. The first casualty was reported two weeks later when one of them pulled the safety pin on a grenade and listened happily as it fizzed in his hand.

After they had come to know Tarawa better, the Americans found that the atoll was pretty close to paradise. The weather was dry and warm without being uncomfortably hot. The coral beaches were as beautiful as any in the world. In the crystal water of the lagoons the swimming and fishing were fine. When General Sherman said, "War is hell," he put it a little too strongly for the men on Tarawa today.



Mullinnix Field, named after rear admiral lost in the taking of the Gilberts, is brand new air base built by American construction men where the Japanese had nothing at all. Thick

clumps of trees in the distance and a hot glow that it's not on Betio where trees were clipped by battle. In foreground, crash truck, fire truck, ambulances are ready for emergencies.



Diver works in lagoon to recover lost munitions. Air compressor which supplies diving hood stands on partially floating crick. The deeper water of Tarawa's lagoon becomes well populated



Sawmill was brought in to cut heavy American lumber into convenient sizes. Now it is used to saw coconut logs. Soft coconut boards are good enough for tent frames and floors, other

temporary uses where imported lumber cannot be spared. In peacetime coconut trees were Tarawa's big paying crop. About 4,000 tons of copra per year came out of the Gilberts.



Street scene on Tarawa shows how engineers all over trees to stand for maximum shade from tropical sun. Although the Gilberts lie across the equator, they are not uncomfortably



albacore, bonito, swordfish and barracuda. Sand of the shallows has probably covered U. S. equipment which was dropped there when Marines came into Betio from the lagoon side.



hot. Because of cool prevailing breezes shade temperature is never higher than 94°. Average temperature all year round is about 84°. Because the soil is dry, there are few mosquitoes.



Crawler crane scoops coral debris used in building the causeway. Behind truck a bulldozer loads up another pile. Engineers have built causeways between islands of the atoll to link

them with truck roads. At low tide it has been possible to wade from one island to another. With causeways, it is now a walk from one end of atoll to the other without wading 100 feet.



Building a cemetery on Buariki island, the marines pile neat mounds of white coral sand over graves. On Buariki, which is at the opposite end of atoll from Betio, 34 marines were killed

by Japanese ambush. The natives, who have great reverence for the dead, marked the first crude graves with bottles and crosses. Marines above have replaced these with new crosses.



Native labor helps with ironing in Tarawa's U. S. Navy laundry. Natives are fed by Americans and lent-leased by British, who pay them about \$7 a month. In addition

to those who live on Tarawa, others have been imported from other atolls in Gilberts. Mostly they work at clearing coconut groves, unloading ships, general sprucing up



NATIVE GIRLS SOMETIMES WEAR MISSIONARY "MOTHER HUBBARD"

THE HAPPY, INNOCENT NATIVES ARE GOVERNED BY THE BRITISH

Tarawa, like the other 15 Gilbert atolla, was governed by the British before the war. It has always been the most important trading center in the Gilberts and their legal port of entry. On its 25 little islands there was a hospital, a Catholic mission, a small radio station and a good-sized warehouse. All of this was taken by the Japanese in their first convulsive land-grab after Pearl Harbor. The Japanese probably came from the Marshall Islands to the North, which they had taken over from the Germans during the last war. When Americans killed or captured all of the Japanese on the atoll last November, British occupation authorities came ashore with them. Shortly afterward the British began using the Gilbertese natives to us for labor.

The Gilbertese are among the most pleasant peoples of the entire Pacific. They are Micronesians, darker than Polynesians but lighter than Melanesians and Negroes. They live mainly on coconuts and fish, although they raise a few pigs and chickens. About one in 100 speaks English. Like most primitive people, they are proud, dignified and virtuous. In the days before the British protectorate their marriage customs were so strict that a betrothal or betrothal of natives were said to almost certainly result in death by being set adrift in canoes without food or water.



Australian nuns of Order of the Sacred Heart stayed on Tarawa during Japanese occupation. On second day of fighting natives heard that the Japanese planned to kill

them; helped their escape. Below: British governing authorities Lt. Col. F. J. C. Ferry (left), Capt. R. D. Marsack. Native villages still have own *kiribatis*, or councils,



Commandant of Mullinnix Field is Commander A. P. Lense. At Mullinnix Field has been built on Buota Island. Japanese rebellion on Buota Island has been renamed Hawkins Field, after Marine hero of Guadalcanal.



Young Gilbertese girls dance for Americans at a native festival. Villages are strictly off limits for servicemen, but visitors are allowed on rare occasions. Most Gilbertese women dress like this, even after years of missionary efforts to get them to wear dresses like those shown at left.

American custom of hitchhiking (*below*) has been quickly picked up by the Gilbertese men. Just after this picture was made jeep driver stopped and they all piled in. Star Line dress of natives is skirtlike bunch at.

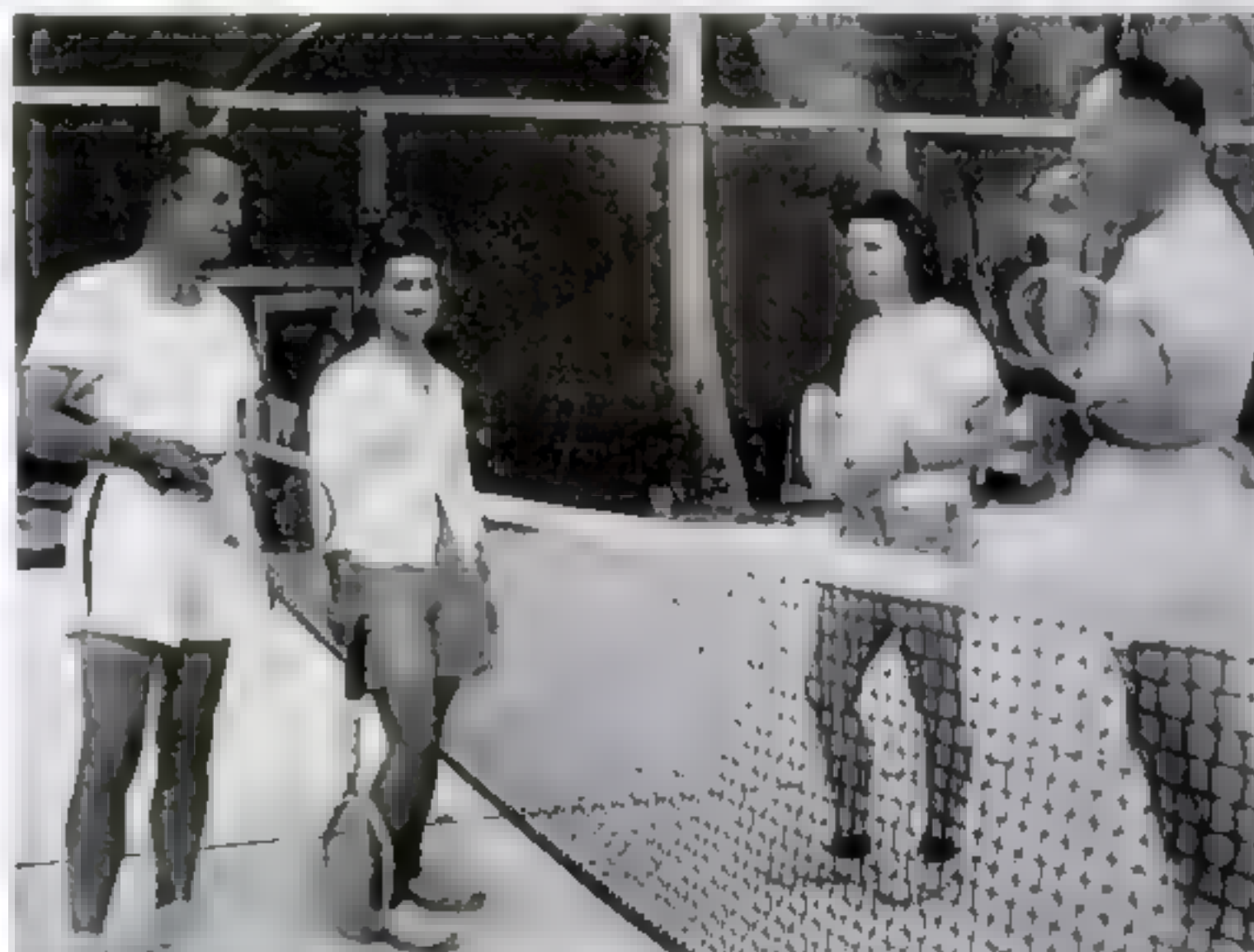




NURSES AND OFFICERS SPORT AROUND OUTRIGGER CANOE IN LAGOON. ENLISTED MEN ALSO FIND TIME FOR SWIMMING, BUT NURSES ARE TOO SCARCE FOR MANY SCENES LIKE THIS



Tarawa officers' club, according to LIFE's Eyerman, was "built around a few cases of whisky." It is housed in old Japanese stockade, has Varga-type pin-up girls to complete illusion of home.



One tennis court was built by men in their spare time. Everyone was allowed to use it, but enlisted men's rackets had not yet arrived from Hawaii. Above, officers and nurses relax in net.

SMALL PART OF TARAWA'S GARRISON PLAYS SOFTBALL ON ONE OF ATOLL'S FIGHTER STRIPS. OPEN SEA IN THE BACKGROUND IS JUST ABOUT OUT OF RANGE OF A LONG FOUL BALL





TARAWA TRUMPETER BLOWS SWEET HORN AT SUNDAY BAND CONCERT

SOLDIERS AND CIVILIANS

WHY ARE THEY GROWING APART? WE CANNOT BRIDGE THE GAP BY RUNNING AWAY FROM IT

In the St. Louis station recently, two sailors and two middle-aged civilians elbowed each other in the crowd at the checking counter. The baggage clerk, probably because the civilians were there first, took their checks first. This enraged the sailors, who were full of beer. They began an argument; the civilians, embarrassed, tried to apologize; but the sailors just got madder. Finally one of the civilians said, "Look, buddy, we were in the last show; it wasn't much of a war compared with this, but we were in it."

As the men walked away, one sailor said to the other, "I should have taken out my knife and cut him."

On a train to Kansas City crowded with soldiers, three civilians and a soldier, strangers to each other, finally found seats in the diner at the same table. All four ordered at the same time, but the soldier got his food first. Whereupon one of the civilians turned on him and said: "Now look, I just want you to remember this. You soldiers are always griping about civilians, but here's another instance of where you guys get everything first." The embarrassed soldier said mildly that he wasn't making any complaints.

On a transcontinental train some marines just back from Tarawa entered the club car to get a drink. The conductor wouldn't let them in; they were coach passengers. One of them protested that he had been dreaming of a Tom Collins for months and had been moved so fast from ship to train that this was his first chance to get one. At length, after some club-car passengers interceded, the conductor relented and the civilians bought the marines drinks all the way to Detroit.

Two Worlds

In little incidents like these, which occur every day in the bars, hotels, poolhalls and theaters as well as trains, there is a warning that something is happening inside the U. S. Our Army is a citizens' army; and there is not a family in America that lacks close personal ties with a fighting man. Civilians and servicemen are living in two separate worlds. In public places where the worlds intersect, sparks begin to fly. Said a young lieutenant the other day, "Lots of people don't realize it, but many servicemen are getting so they hate civilians."

What explains this chasm?

Most civilians know by now the favorite gripes of the man in uniform. They were succinctly summarized recently by a sergeant at Camp Shelby, in a verse entitled *Back Home*:

*Money and liquor and girls
They are grabbing for all they are worth.
Why do the swine get the pearls
And the meek inherit the earth?*

The American soldier at the front is called

"the most homesick soldier in the world." To get back to civilian life is his No. 1 war aim. Hence, when he does get home, either on furlough or for good, it is doubly tragic when the home front disgusts him. When Lieut. Tom Harmon came back from China he told the people of Detroit that he was ashamed of them and that what they needed most was a first-class bombing raid. Equally bitter was the reaction of Coxswain Robert F. Evans of Dallas: "I am so disappointed in this country I could cry. For 20 months out there in the islands I've prayed and fought and bled, waiting for this day to come. Now that it's here, I'll be glad to get back out there among human beings again."

This new bitterness is complicated; perhaps fortunately so. It is not 100% motivated by sex, or by economics, or by fear, or by any other single thing.

Moreover, there seem to be two chasms, not one. One chasm divides men in uniform from men not in uniform. That is deep, but not abyssal; thousands cross it in both directions every day. Another chasm divides men who have experienced battle from all "gold-brickers," uniformed or not. That is far deeper. Men who have heard, seen and smelled death all around them find the road back long and hard, and some never find it at all.

Of all the American casualties shipped home from the front, one third are "neuro-psychiatric cases"—no wounds, no bones broken. In the face of such a statistic, it is not hard to imagine that those veterans who held themselves together, and are still fighting, did so at a great secret price. Psychologically most U. S. soldiers are deplorably unprepared for war. But even on the man who knows what he is fighting for the impact of the first battle is incalculable. He is not the same man he was before.

The veteran who returns eagerly to the world's most understanding wife is going to have trouble getting acquainted again, and so is she. As for his postwar relations with John L. Lewis, or a desk major, or Frank Sinatra, to ask for perfect understanding is asking too much. On either side.

How to Build the Bridge

This psychological chasm will narrow in time. But it is safer to start building a bridge across it now. And the bridge must have abutments on both sides.

What can the civilian do? Letters and more letters, for one thing; if man's effort to communicate with man was ever important, it is now. The civilian can also try to isolate the main causes of the soldier's resentment. One cause is the average citizen's profound ignorance of the war.

In *Tarawa*, the book by Robert Sherrod

which does all a book can to dispel this ignorance, a bomber pilot returned from the Pacific says: "When I told my mother what the war was really like, and how long it was going to take, she sat down and cried." She had been misled, like most Americans, by the inadequacies and distortions of the press, the radio, the movies and the headquarters communiques.

Also, no doubt, by lazy and wishful thinking. For the U. S. information services, with all their faults, are at least the most voluminous in the world. In Britain, Russia and China, the civilian's knowledge of the war is reinforced by his personal experience of bullets or bombs. Lacking this experience, we Americans can only read and listen to the news and see what few good war movies there are with more curiosity, more skepticism, and more effort of imagination than we ever asked of ourselves before.

To a man facing death, truth is the most important thing in the world. He needs most to feel that the family and the country he loves will know what he actually did, stripped as he was then of all self-deception. His is "the cry of the alone to the alone," and his civilian brother must strain every nerve to hear it. It is the least he can do for his part in building the bridge.

Honesty or Hair Shirts?

Another way of saying this is that soldiers, especially front-line soldiers, hate hokey. There is a good deal of hokey on the home front, and one of its forms is the civilian hair shirt. The quickest way for a civilian to bore any soldier is to recount apologetically how many times he vainly tried to enlist. It is no disgrace to be a civilian; it is a piece of luck, not guilt. One can admire Tom Harmon and still differ with him on whether bombing Detroit would shorten the war.

The gravest responsibility which the civilian owes for his luck is to keep his sense of proportion, his head. It is primarily the civilian's difficult job—not the soldier's—to keep his daughter off the street; to keep track of his congressmen; to devise schemes for preventing strikes; and to have a plan, both personal and national, for the postwar world. A plan in which the returned soldier can be a civilian again, too.

You hear a lot of soldiers say they will "run things" after the war. Coupled with their resentment of all things civilian, it is easy to take alarm at such talk; for similar social lesions have destroyed great nations in the past. But it hasn't happened to us yet and it needn't. What we need to do first is to examine and measure the chasm, not point at it and run away. Soldiers and civilians need each other. This need, if both are sensible, will bring them together again.

PICTURE OF THE WEEK

Freakish spring weather hit the eastern half of the U. S. last week. Just before Easter a wet snow-storm, which clung to branches of the trees, trans-

formed New York's Central Park into a picture fairyland. In the South peach growers feared the cold would ruin their crops. In Florida, beaches

were deserted as the temperature hovered in the low 40's. By week's end, fortunately, thermometers had risen. The snow had gone from Central Park



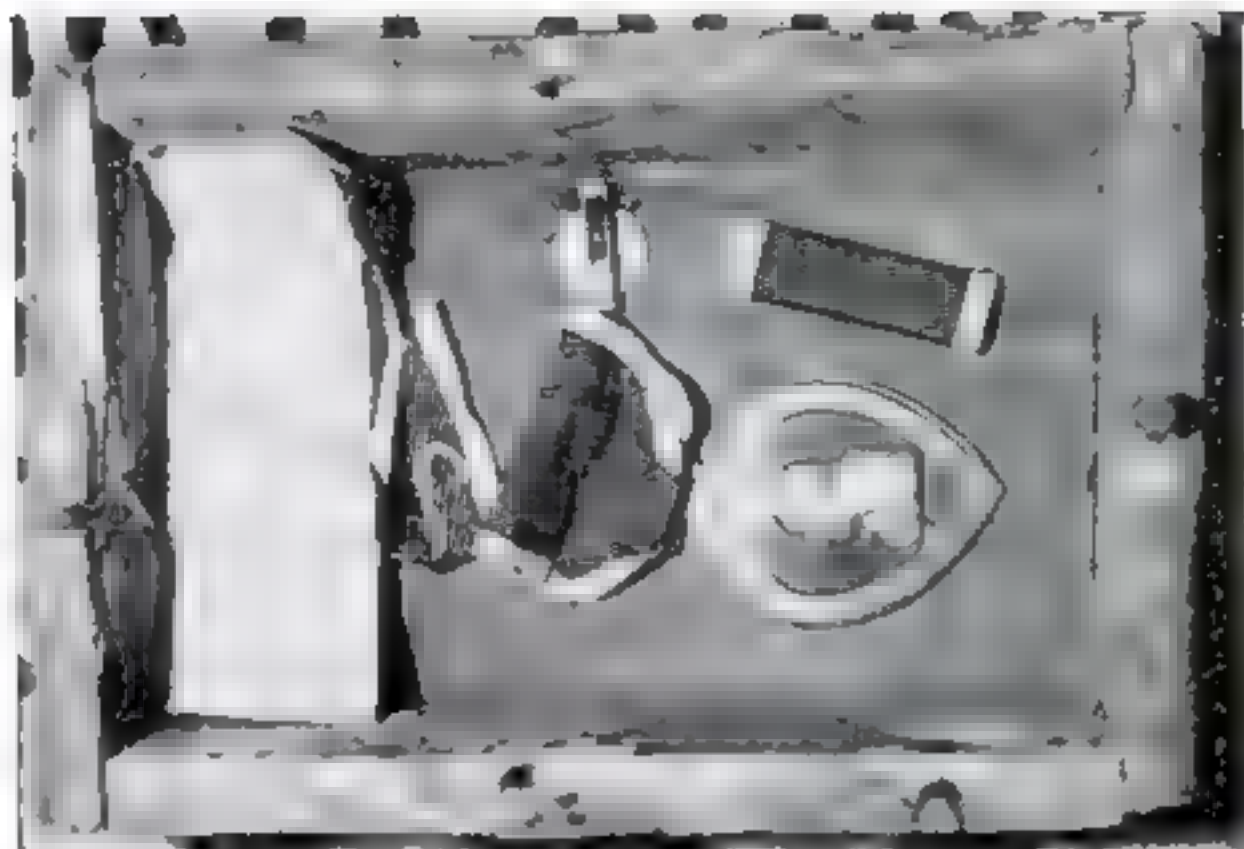
An April snowstorm swirls down on New York's Central Park



From a lost soldier's pockets came this collection of things — a guide to New Zealand, a sewing kit with buttons and scissors, some snapshots of a girl named Alice and of a baby, receipts for money orders sent home, New Zealand coins,

an unfilled identification card and, in a little notebook, the eloquent thoughts of a man unused to being eloquent. "This is the time for new revelation," he wrote in an awkward hand. "People don't think much about religion nowadays.

But we need a voice from on High, brother, and I don't mean maybe. This thing has got out of our ability to run. I'm no religious fanatic. But we're in a situation where something better than our brains has got to give us advice."



AN ORDER OF THE PURPLE HEART COMES PACKED IN LITTLE WOOD BOX

DEAD MEN'S THINGS

In Kansas City, Mo., last week, as for weeks before and for many weeks to come, railroad cars were shunted alongside a former mail-order-company building and were emptied of their freight—the effects of U. S. soldiers killed or missing in action. Except for the missing who might come back, these were the only tangible things returning from men who lay buried half a world away.

In the Army Effects Bureau, where the possessions soldiers leave behind are sent, the dead men's things are unpacked, sorted, packed again and sent to the soldiers' families. From this emptying of dead men's pockets come Bibles, prayer books, letters, snapshots, diaries. There are walrus tusks from men in the north, scarabs from men who died in Africa and souvenirs from all over—a stuffed alligator, a Japanese life raft, an almost-complete German machine gun, a pouch of unset diamonds. One boy carried a circular from a muscle-building company, still undecided as he went to his death whether he should buy the regulation "chest-pull-and-bar-bell combination" at \$5.95 or the "super-strength set" at \$6.95.

The Effects Bureau is a quiet place. Over it hangs the faint odor of fumigation. To people who go there, it seems a more sacred place than a cemetery and ordinary things it handles seem the best kind of memorials to men who will never see or touch or use them again.



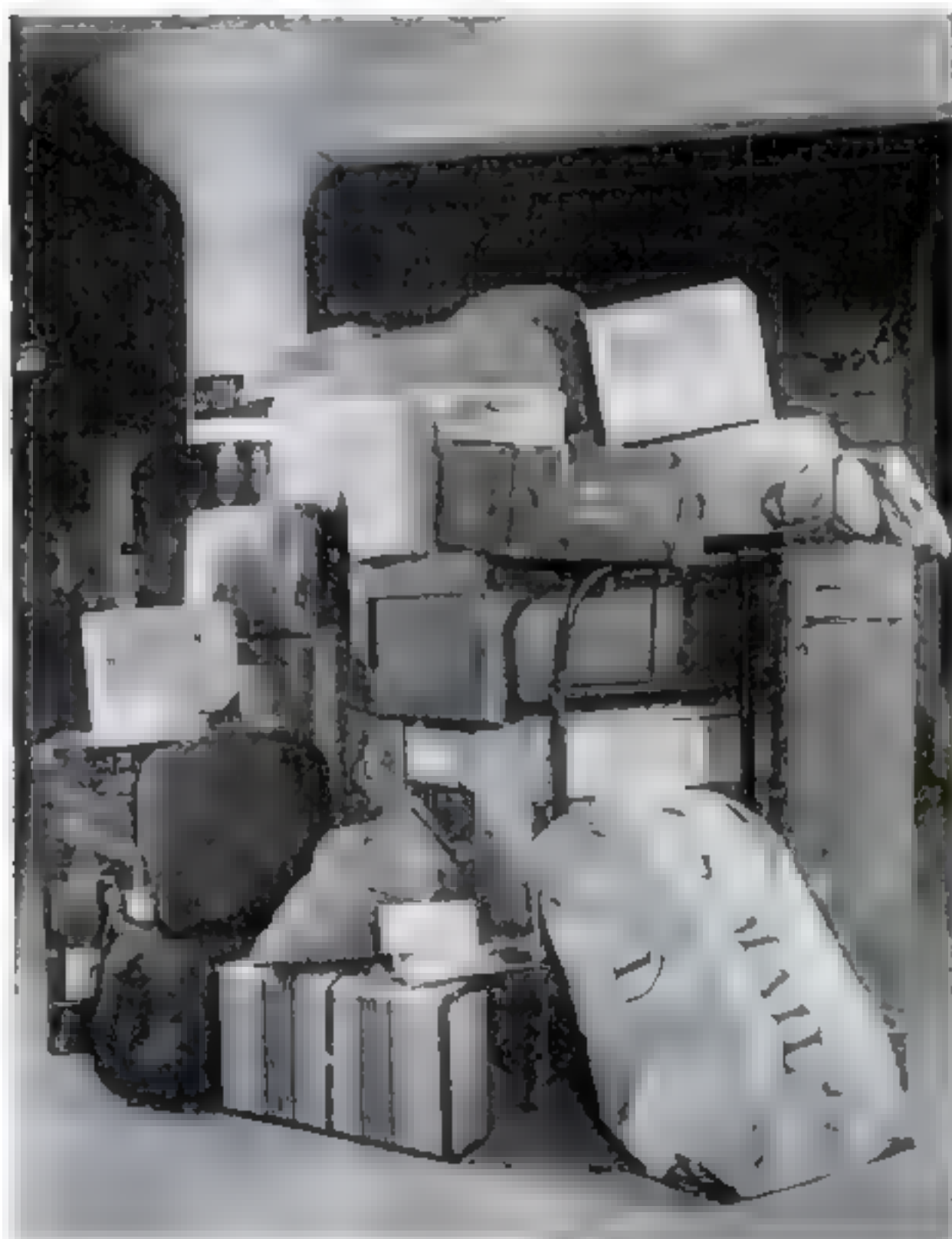
An airman's things are sorted by Mrs. Ruth Graham, whose husband and brother are both in the Pacific. This flier had kept a large supply of facial

soap and carried a Boy Scout ax. Everything will be sent to the family except the letters or diaries which may contain restricted military information.



An officer's clothes are checked off (above), will be neatly packed away (below) and sent off. Usually only officers' clothing comes back. The enlisted

men's clothes are mostly GI and belong to the Army. Also at the bureau are articles forgotten by men who have left in haste for a new destination.



EFFECTS COME IN BAGS, SUITCASES, TRUNKS AND AMMUNITION BOXES



At campaign headquarters in Madison Willkie shakes hands with Robert Caldwell, one of his district delegates, while Willard Smith, executive secretary of Willkie-for-President Committee of Wisconsin, sits by. Willkie's assignment in Wisconsin was a tough one. Pre-war isolationism had been strong there. In 1930-1941 the Republican congressmen from Wisconsin voted

vehemently against all war-preparedness bills. Willkie said that he entered the primary "to test whether the Republican voters of that state would support me in advocacy . . . of Un-Lex, effective economic and political cooperation among the nations of the world . . ." Not even a strenuous 13-day tour, however, in which he made 40 speeches got him a single delegate.

WILLKIE BOWS OUT

After Wisconsin defeat he withdraws from Republican presidential race

On April 4, as the curtain went up on the 1944 Republican presidential contest, Wendell Willkie was overwhelmingly beaten in the Wisconsin primaries. In a state where he was the only active candidate and where he himself had said he must receive a majority of the 24 delegates to the Republican convention, he did not get a single delegate. Governor Thomas E. Dewey of New York got 13; Lieut. Commander Harold E. Stassen 4; General Douglas MacArthur, 3. The next day Willkie announced his withdrawal. Said he, "It is obvious now that I cannot be nominated."

Thus, almost exactly four years after he had rocketed up into the Republican heavens, Willkie's career as a presidential possibility appeared finished. It had been four exciting years. His unbounded energy and consistent good humor, combined with the courageous frankness with which he always expressed his beliefs, won him a place of honor among American "also-rans." Long before the U. S. entered the war he argued for American aid to the Allies. In keeping with the historic Republican traditions of Theodore Roosevelt, Elihu Root and William H. Taft, he advocated an organization of nations, including the U. S., to keep world peace. In domestic affairs he criticized the Democratic Party for the way it was handling the war, but he also added, "My main objective in life is to make the Republican Party worthy of removing Mr. Roosevelt from office."

As a political operator, Willkie made many mistakes. He refused to make friends with the party professionals upon whom he was dependent for political strength. He was uncompromising in his insistence that the only alternative to his brand of liberalism and internationalism was reaction and isolationism. Most important of all, by his foreign policy and by the severity of his attacks on members of his own party, no matter how honest they may have been, Willkie laid himself open to the charge that he was "just another Roosevelt." The combination of all these factors was what beat him.



Willkie holds up a horse collar at an auction March 25 in Evansville. In farm parlance holding up horse collar means "shooting the bull." Later Willkie discussed the sheep market with several farmers. Wherever a group of people was gathered, Willkie would stop to talk.

1940-1944: WILLKIE'S POLITICAL CAREER



NOMINATED FOR PRESIDENT IN JUNE 1940



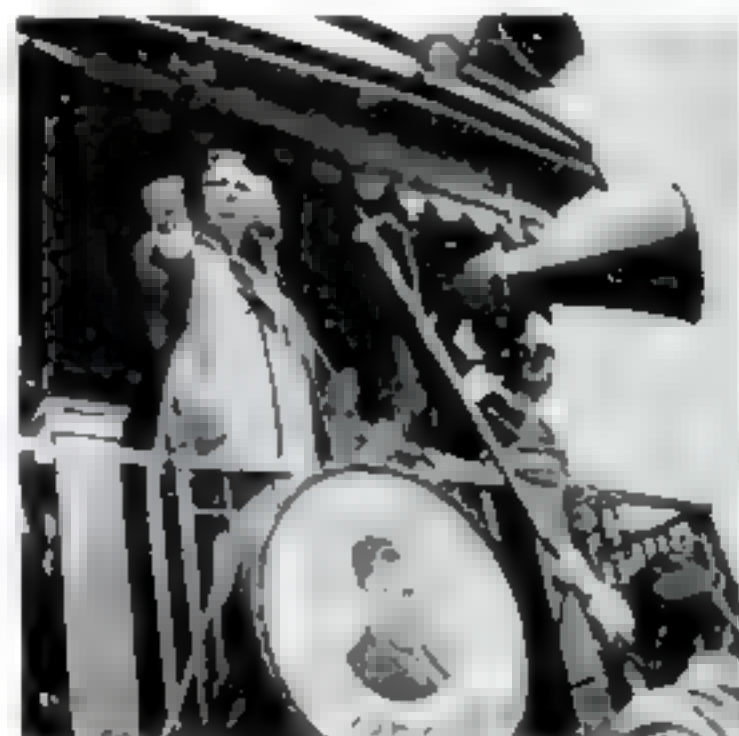
IN 1940 HE GETS TOGETHER WITH TAFT AND VANDENBERG



LISTENS TO "THE CHAMP'S" NOMINATION



ACCEPTANCE SPEECH PARADE IN HOME TOWN ELWOOD, IND.



HE SPEAKS FROM TRAIN IN TULANE, CAL.



EGG SPATTERS SHOULDER IN CHICAGO RAILROAD DEPOT



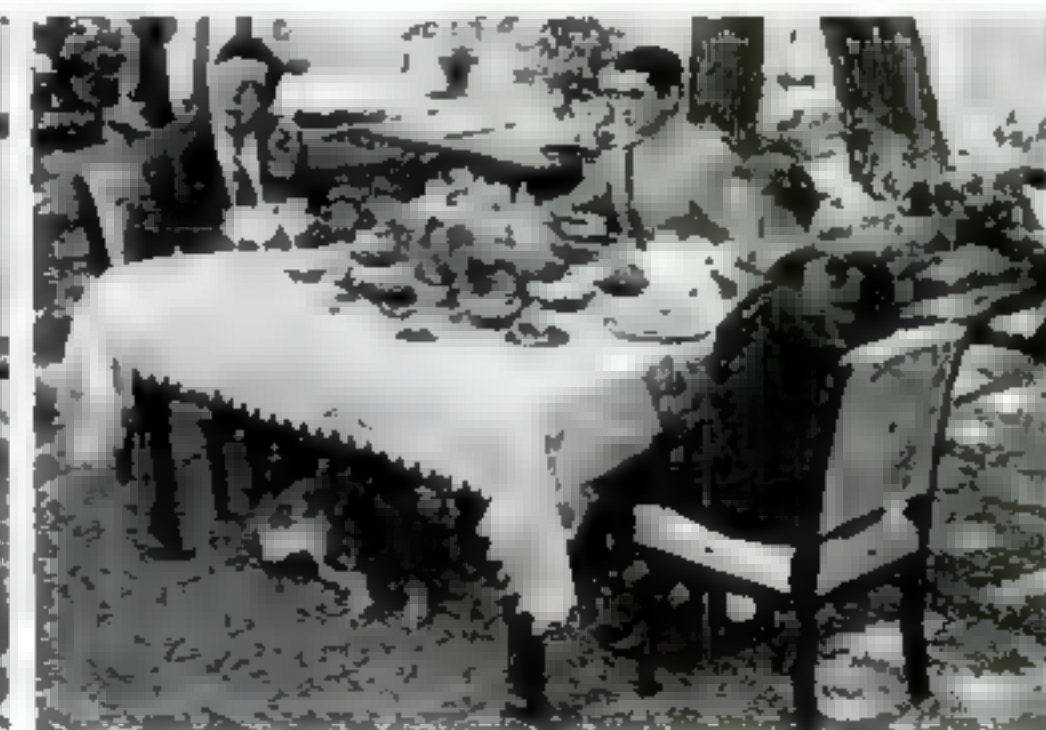
HE SEES THE PRESIDENT AT WHITE HOUSE



ADJUSTS WHITE TIE BEFORE HIS GRIDIRON CLUB SPEECH



INSPECTING BOMB DAMAGE IN ENGLAND



AT LUNCH WITH SHAH OF IRAN IN ROUND-THE-WORLD TRIP



Dewey headquarters unofficially were in Secretary of State Zimmerman's back office, where he is shown going over a list of Dewey supporters with delegates Norris Kellman (left) and Donald McDowell. Zimmerman planned to follow Wilkie on tour, refuting his arguments, but could not get funds.



MacArthur headquarters in Madison were in Lawyer Lucius Square's office (above) while the Stassen headquarters were in the Hotel Lorraine (below) where a large picture of him was on display. With the picture of Stassen are shown Campaign Managers Victor Johnston (left) and Ralph Timmons.



ZIMMERMAN'S SON, ROBERT, ASST. SECY. OF STATE, GETS OUT DEWEY LETTERS

DEWEY VICTORY MAKES HIM FAVORITE FOR THE PRESIDENTIAL NOMINATION

Along with the elimination of Wilkie, the Wisconsin primary gave Dewey the current favorite for the Republican presidential nomination. By last week he had 194 claimed and pledged delegates. In second place was Stassen with 37. Dewey's supporters were saying he would be nominated on the first ballot in Chicago, June 26.

The overwhelming Dewey victory in Wisconsin was surprising because he had said he was not a candidate and had asked his delegates to withdraw. A few of them did so, but the 15 who remained were all elected. In contrast to the efforts of the well-organized and financed Wilkie supporters, the Dewey people did virtually nothing for their candidate. Up to March 15 the Wilkie group spent some \$45,000, the Dewey group, \$400. Even the Stassen organization, which was run from Minnesota and appealed particularly to students, *had* spent more than \$7,000. The MacArthur group, popular with the state's isolationists, spent about \$800.

The Dewey organization, sparked by Secretary of State Fred Zimmerman, a former governor, had the support of most Republican politicians. It did its work by writing personal letters, by serving coffee and cake in Zimmerman's back office, by getting together in the bar of Madison's Park Hotel. Said Wilkie of Zimmerman, who got more votes at the polls than any other candidate here: "I know no more creative or organized man than America First opposed to the beliefs which I entertain." Zimmerman denied this membership, saying, "I believe in the United States of America first."



UNIVERSITY OF WISCONSIN GIRLS MEET TO ENROLL FOR WORK FOR STASSEN

"BEAR DOWN, MISTER... BEAR DOWN!"

I don't have to look at her . . .
I don't have to watch my ship die . . .
All my life long I'll see her in my mind's
eye . . .

And always I'll hear the high, faint roar
of planes circling . . . circling . . . circling
... as their gas runs low and they've no-
where to go and the guys at the sticks
look down and tears spill over the lids of
their eyes and they stiffen their lips.

Ever lose your ship, Mister?

Ever lose your mother?

Ever lose your girl?

Your heart cracks and the weight on
your back seems to push you under and
you think you'll drown, but you don't.

You carry on, not for yourself but for the
rest of the folks . . . for the family . . . the
kids . . . for guys like these swimming

around, circling around with night com-
ing on and no ship to come home to and
around and below only the empty sea.

But we don't want pity!

We'll come through! . . . We'll find an-
other ship! . . . We'll get back! . . . be-
cause we're free men, born to be on our
own . . . brought up to fight on a team or
alone . . . trained to live for our country,
not to give up and die!

So, bear down, Mister . . . bear down . . .

For every drop of blood they spill . . . for
every heart they break . . . for every tear
that's shed . . . for every ship that's sunk
... for every plane it costs . . . for every
man of ours who's lost . . . they'll pay
with ten of their own!

Bear down, Mister . . . bear down . . .

So the freedom we want . . .

So the futures we want . . .
So the country we want . . .
Will be there when we get back!

Here at Nash-Kelvinator we're building
Pratt & Whitney engines for the Navy's
Vought Corsairs and Grumman Hellcats
... Hamilton Standard propellers for
United Nations bombers . . . governors,
binoculars, parts for ships, jeeps, tanks
and trucks . . . readying production lines
for Sikorsky helicopters. All of us devoted
100% to winning this war . . . to speeding
the peace when our men will come back to
their jobs and homes and even
better futures than they had
before. . . to the day when we'll
build for you an even finer Kel-
vinator, an even greater Nash!



NASH-KELVINATOR CORPORATION
Kenosha • Milwaukee • DETROIT • Grand Rapids • Lansing

Bear down, Mister . . .
Buy War Bonds
TILL IT HURTS!



NASH
AUTOMOBILES



KELVINATOR



REFRIGERATORS • ELECTRIC RANGES



Bell-ringer

IF EVER a whiskey rang the bell on every count, that whiskey is Four Roses!

Its delicate aroma may be the first thing that tells you that you've found an unusually excellent whiskey.

Then, as you sip Four Roses, and savor its rich deep flavor, its mellow

smoothness, we think you'll arrive at the same conclusion so many others share.

In a cocktail, highball, or straight, Four Roses is the one whiskey that simply can't be matched.

*Four Roses is a blend of straight whiskeys
40 proof. Frankfort Distillers Corporation,
New York City*

FOUR ROSES

A TRULY GREAT WHISKEY





FIRST PICTURE RELEASED OF BRITAIN'S ANTIAIRCRAFT ROCKET GUNS SHOWS THE BACK BLAST OUT BREECH OF SECOND GUN. THESE GUNS HAVE BEEN IN USE FOR TWO YEARS

NEW ROCKET GUN

British reveal their "Z-gun"
which now defends London sky

The rocket has revolutionized modern war's artillery fire but it should be familiar to every American in the *Star Spangled Banner's* "rockets' red glare, the bombs bursting in air." A British rocket brigade won the battle in 1814 that led to the burning of Washington. The British did not drop rockets until 1885.

Last week the British released the first pictures of the "Z-guns" that have been defending London with rockets for two years (*above*). All of the world's

great armies are now using similar guns. The useful and revolutionary thing about the rocket today is that it does not require a heavy steel barrel, breech and firing mechanism. An electrical spark sets off a small charge which gets the rocket going slowly and ignites a slow-burning powder. This burns for two seconds of the trajectory. The rocket goes the rest of the way on momentum, like any shell. The top range is now about four miles. Accuracy is still very poor.

SMOKE-LAYING ROCKETS ARE DISCHARGED BY THE SIX-BARRELED NAZI "NEBELWERFER" (MEANING "FOG THROWERS") WHICH ALSO FIRE 55-LB. HIGH-EXPLOSIVE PROJECTILES



CAN YOU NAME THE WORLD'S BEST-KNOWN...

PAINTER?

• He specialized in portraits of men. Unfortunately, he lived a few hundred years too soon to pose them in handsome Arrow Shirts.



Cow?

• She's married to Elmer, the bull. Arrow is a past master at fitting and flattering male necks, but Elmer's is one neck we're glad we don't have to struggle with!

SHIRTS?

• Trim and *perfect-fitting*, these shirts are the choice of *millions* of well-dressed men. The only shirts which can boast the flawless Arrow Collar... the shirts that *also* have anchored buttons, the Mitoga figure-cut, and the "Sanforized" label (less than 1% shrinkage). \$2.24 up.



Bargains?

• They cost only \$18.75, yet when you buy them you help save American lives, help bring Victory.

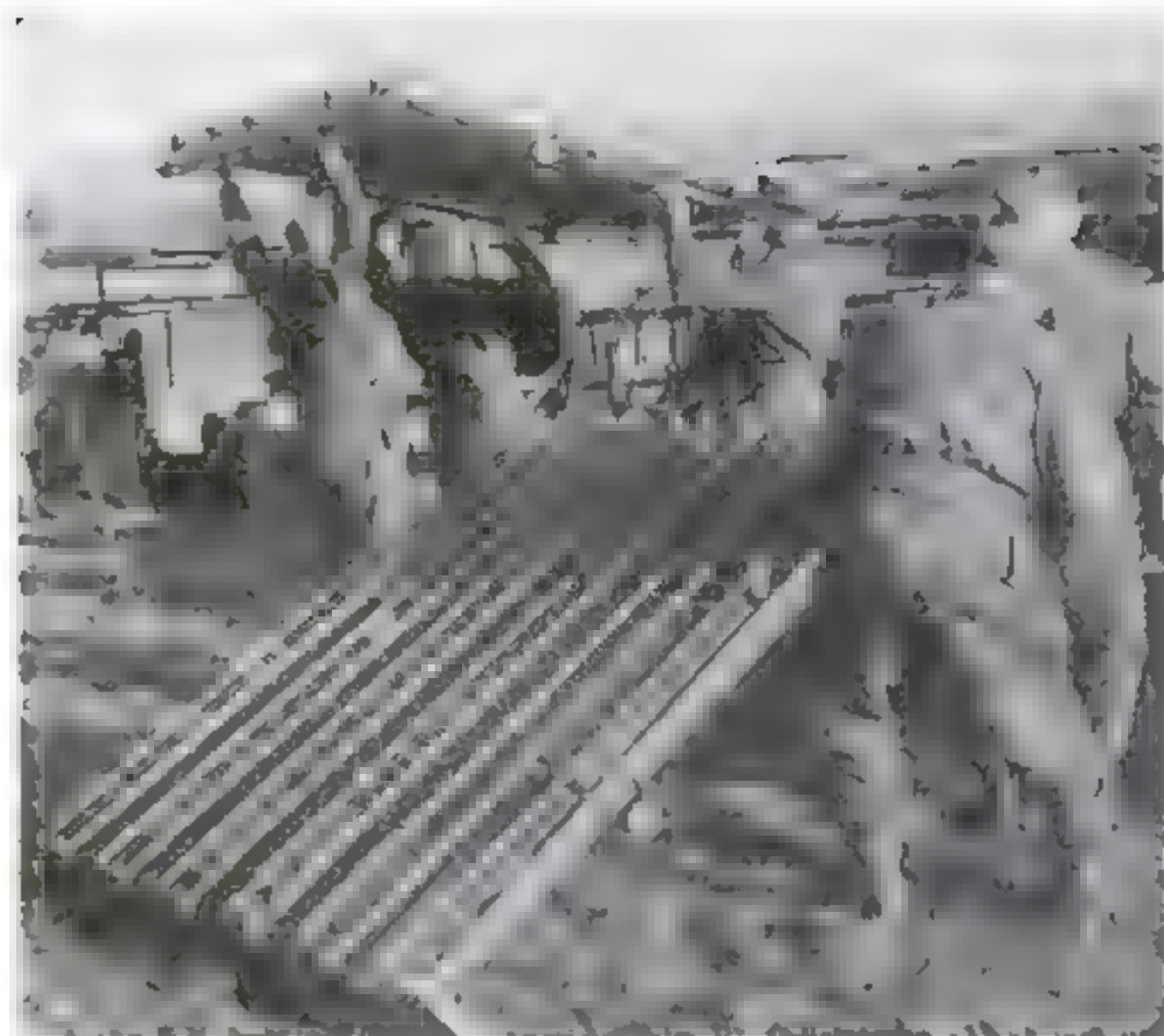


ARROW SHIRTS

Arrow Shirts have both fused and soft collars. The fused collars are made by the patented Celanese wrinkle-free process... (If your dealer doesn't always have a complete line of Arrows, please don't blame him. It's caused by unavoidable wartime shortages and delays.) Cluett, Peabody & Co., Inc.

Answers: 1. Rembrandt. 2. Elsie. 3. Arrows. 4. War Bonds.

New Rocket Gun (continued)



Light construction of British rocket guns is shown vividly here. This looks like a bedspring, is all that is necessary to aim the self-propelling rocket. This means that it can be moved fast, in large numbers, and concentrate fire suddenly in one place.



A fixed rocket gun, unlike those at top, is mounted in the anti-aircraft defenses of London. Here the rocket is started off on rails. It throws out its rear jet of flame (which does not propel it) for less than a mile, explodes on contact or by time fuse.

CONTINUED ON PAGE 44



Paul Revere rides again

Paul Revere typified the free America.

He struck many a good blow for independence and earned the rank of Lieutenant-Colonel. But most important of all, he *produced* for his country.

There was desperate need for gunpowder. With the Government, Paul Revere built two mills for its manufacture. There was desperate need for cannon. So Paul Revere turned his peacetime skill with metals to war production. And the cannon he cast helped mightily to win the final victory.

Today Paul Revere rides again. As he did, all industry is proving that the creative power of free men is an invincible weapon. Here, at the business which he founded, history is repeating itself. New plants have risen once again for the production of victory-making equipment. We are providing the Army with millions of pounds of Revere alloys for use

in ammunition, trucks, tanks, planes, ordnance . . .

Because copper affects the life of every citizen in a thousand unseen ways, Paul Revere's business became an integral part of American life more than 140 years ago. Today, it continues to be an essential force, and many of its achievements are revolutionary. Tomorrow, once victory is won, its resources and abilities, and above all, the far-reaching spirit of Paul Revere, will be on instant call to the needs of the nation, and of the industries to which the nation looks for health, progress and security.

Many of our wartime developments may mean reduced costs or improved performance in your post-war products. If you are interested in the uses of brass, copper, copper alloys, or the new light metals, simply write to Revere Executive Offices, 230 Park Avenue, New York 17, N. Y.

REVERE COPPER AND BRASS INCORPORATED

FOUNDED BY PAUL REVERE IN 1794

FABRICATORS OF COPPER, BRASS, MAGNESIUM, ALUMINUM, BRONZE AND STEEL

GOOD THINGS TO COME WITH PEACE!

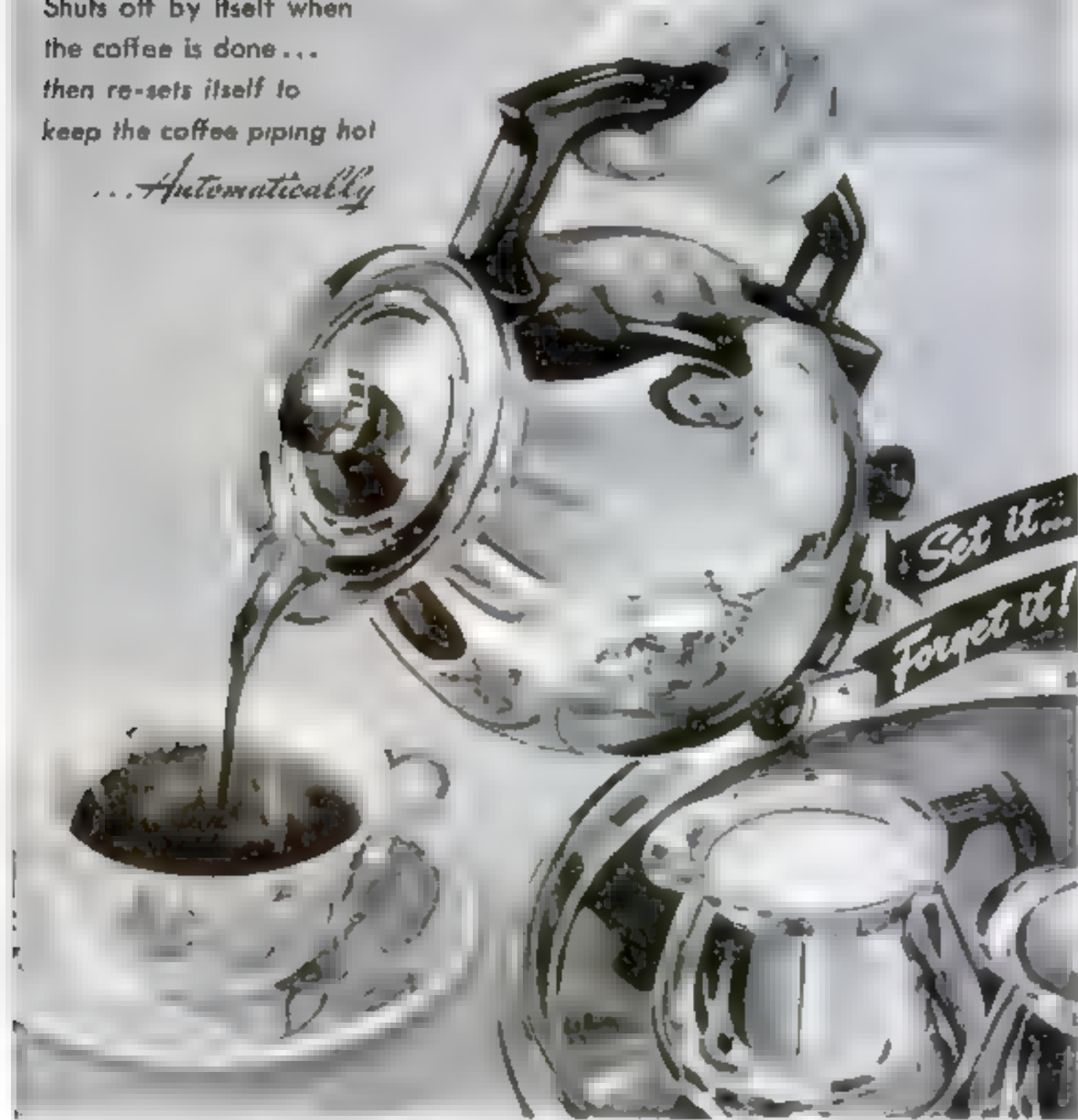


Sunbeam

COFFEEMASTER

IT'S AUTOMATIC

Shuts off by itself when
the coffee is done...
then re-sets itself to
keep the coffee piping hot
...*Automatically*



Delicious Coffee...Every Time

Never has a coffeemaker aroused so much lasting enthusiasm among those who own it as Sunbeam Coffeemaster. Since war-work replaced it at Sunbeam in 1941, we have heard from literally thousands of people who have seen it in friends' homes, admired its striking beauty, enjoyed its marvelous coffee, and want one like it.

Coffeemaster coffee is ALWAYS perfect—because everything is *automatic*. Simply set it and forget it. It is your assurance of the *same* delicious coffee every time you make it because the water is *always* at the correct high heat, and the brewing time is *always* uniform—secrets of delicious coffee-making. You can't miss—it's automatic.

The purpose of this advertisement is to tell all our friends that Coffeemaster will be back as soon as conditions permit. If you have one, give it good care. If not, buy a War Bond *today*, for your Sunbeam Coffeemaster *later*.

No Watching... No Guesswork!



ALL YOU DO IS
PUT IN THE WATER
AND COFFEE.

SET IT. FORGET IT. Read the paper, dress the
children. In a few minutes, click! it shuts itself off
when coffee is done. Re-sets itself to keep coffee hot.

LOVELIEST OF
SERVERS and no
glass bowls to break.

CHICAGO FLEXIBLE SHAFT COMPANY, 5600 Roosevelt Rd., Dept. 33, Chicago 50, Ill.
Canada Factory: 321 Weston Rd., So., Toronto 9. Over Half a Century Making Quality Products

BY THE MAKERS OF **Sunbeam** MIXMASTER

New Rocket Gun (continued)



Rockets get going so slowly camera catches them. First explosion blows out a linen patch at back of shell. Expanding gases exert pressure forward in shell. The back jet, really only an exhaust, does not propel the projectile by pushing against the air.



London's night defense now looks like this, with rocket guns carving the night sky. Halfway up, when the charge burns out, the shell changes from a rocket to an ordinary projectile. This change contributes to the problem of working out ballistics.



Back home for keeps

No other smile is half so sweet as the smile he'll have for you that happy morning. No other voice is half so dear as the voice that will whisper in your ear. No other arms feel as strong and hard and safe as the two that will gather you close. It will be good to be alive again—good to plan your days, your life, your home . . . together.

And when you choose your treasured silverware, you'll buy the kind you want *for keeps*—Community®! For years it has been first choice with brides who buy for a lifetime. When the war is over, it will be again. For Community, too, will be off on a new life—putting away the tools of war, happy once more to be making the shining silverware brides have ever thrilled to own. It will seem lovelier than ever (you'll see!) *because* you've waited, *because* you've trusted that *the day will come!*

BUY WAR BONDS!



SPEED THE DAY!



Melody *Design

If it's Community... it's correct

®TRADEMARK COPYRIGHT 1944, ONEIDA LTD.

ARE AMERICAN WOMEN WHINING? "NO!" SAYS KATE SMITH

Radio star's tremendous fan mail practically
never contains a complaint

MILLIONS of American women regard Kate Smith, the radio star, as a real and personal friend. Her natural charm, cheerful philosophy, and happy songs have established an enviable bond between her and her public.

Kate loves her listeners, too. She sees red when she hears charges that American housewives are not co-operating with rationing and food-saving programs. And she has interesting proof of how hard they are working at these vital-to-victory jobs.

Listen to The Kate Smith Hour every Friday night—CBS network



"Anyone who believes that the average housewife is complaining about the things she's asked to do, should just read my mail for one day," she says. "I get thousands of letters from women every week. They come from all parts of the country and all walks of life. And I'll have you know, it's a rare day when I get a complaining, whining letter."



"Instead I get triumphant letters. Letters from women who say they're using even less than their rations because they want to share and play square. Letters about the hundreds of quarts of vegetables they're planning to can from their Victory Gardens. Letters thanking me for the food-saving ideas I give 'em. And often they send me their own good, economical recipes in exchange for the recipes I tell 'em about over the air."



"I'm glad the products that sponsor my programs are the kind that are really useful to these busy women. When I tell 'em about Jell-O Puddings, for instance, I'm telling 'em about a dessert they can make in just eight minutes—a dessert so delicious and wholesome and filling that it makes folks forget all about a skumpy main course . . . Yes, they're good sports, these women. And, from what I hear, their families aren't doing any complaining either!"

JELL-O PUDDINGS—CHOCOLATE, VANILLA, BUTTERSCOTCH—PRODUCTS OF GENERAL FOODS . . . "LIKE GRANDMA'S—ONLY MORE SO!"



THE SPRINTING YOUNGS ARE COACHED BY MOTHER. L. TO R.: HENDRICKS, STANLEY, CLAUDE, CLARENCE, FRIEDA, CLAUDINE. FRIEDA HAS WEAK HEART, HAS STOPPED RUNNING

THE YOUNG FAMILY

Former girl track star mothers
a flock of sprinting children

The healthy Negro kids shown practicing here are the fabulous Youngs of Chicago, who in themselves are a one-family track team. Their mother is a former grammar-school sprinting star who gave up track 20 years ago in order to marry and raise a family. She has brought up seven children virtually in running shoes, coached them so well that today five of them are crack sprinters.

Best athlete of whole family is Claude ("Buddy")

Young, a freshman at the University of Illinois, who has twice equaled the world's record of 0.1 seconds for the 60 yard dash, has tied the American indoor record of 6.0 seconds for the 60-yard low hurdles, and is almost always the high scorer of the Illinois meets.

A young Young starts sprinting almost as soon as he can walk. A few years ago the entire family was barred from church picnic races because they were winning all the prizes and discouraging competition.



Buddy Young, 18, now in the hands of Illinois coaches, still profits from his mother's lessons.



Stanley Young, 14, here limbering up with his mother, is a sprinter on the track team of Englewood High School, in Chicago, where he is a freshman. He also plays basketball.



Claudine Young, 18, (right) coached by Buddy, won 1932 Chicago all-city 100-yard dash

How to use an axe properly



Sharp edge—tight bit—strong handle—all these should be checked carefully, for they help to make chopping easier, safer. In using an axe, always swing so that the handle is as nearly horizontal as possible when the blade strikes its objective. Keep area of swing clear and avoid bulky clothing, if possible.

(Facts from National Safety Council)



Extra "give"—"Stretchy-Seat"—supporter—all these features help to make Munsingwear SKIT-Trunks (with absorbent SKIT-Shirt to match) the favorite underwear with men who like plenty of comfort whether they're in muscle-straining action or just relaxing. Knitted, Munsingwear stretches to match every movement—fits and gives like your skin. Doesn't bind or "bunch up." At better stores, everywhere.

Munsingwear

The only underwear with the STRETCHY-SEAT

REG. TRADE-MARK

The Young Family (continued)



"Buddy" Young wins 60-yard dash for University of Illinois in Big Ten track-meet. Time was 6.2 seconds, only one-tenth of a second over the world's record for event.



Clarence Young, 16, lives with some relatives in Detroit, where he is on the track team of Northern High School. He has done the outdoor 50-yard dash in 6 seconds.



Hendricks Young, 12, is the star sprinter of Ye Olde Tymers, an amateur athletic club on Chicago's South Side. He is in 7th grade at James McCoah Grade School.

CONTINUED ON PAGE 28



Finish the Fight with War Bonds

"How can they come back?"

"It was a miracle the ship didn't break in two up there," said an Army Air Force Sergeant, holder of the Congressional Medal of Honor for his part in bringing home a badly crippled Boeing Flying Fortress. "I'd like to shake hands personally with the people who built it."

MANY Fortress crews, home from combat, echo that sentiment. They have seen planes limp in with three out of four engines dead, with controls shot away, wings and tails riddled like saltcellars, or with shell holes as large as wash tubs. *How can they do it?* Here are some of the answers:

1. Fortress wings are built with substantial, truss-type spars like a bridge, covered with a double skin of tough metal. The truss spars carry 1/3 of the

load; the reinforced skin, 2/3. This structure tends to keep gunfire damage local, rather than basically affecting wing strength.

2. Boeing engineers have always insisted on alternate methods of control. And even if battle damage prevents use of all other control methods, the automatic pilot can be used for near-normal maneuverability.

3. Virtually all mechanisms are electrically operated. Damage to one circuit will not affect others, and dispersal of these circuits reduces vulnerability. Moreover, a single electric circuit can be readily repaired, even in flight.

4. The "dorsal fin," as developed by Boeing, is a spectacular advance in airplane design, giving the

Flying Fortress inherent stability. With the vertical or horizontal tail surfaces partially destroyed in battle, or with one or more engines shot away, a Fortress can still be flown successfully because of its excellent tail design.

5. But one of the most important reasons why the Forts fight off enemy opposition, hit their targets and "come back" is the confidence, based on the record, which causes many a Fortress crew to stay with the ship long past normal bail-out time, knowing that somehow it WILL bring them safely home.

Boeing integrity in research, design, engineering and manufacturing will again be a part of peacetime products when the war is won. True today, it will be true tomorrow . . . if it's "Built by Boeing" it's bound to be good.

DESIGNERS OF THE FLYING FORTRESS • THE NEW B-29 SUPERFORTRESS • THE STRATOLINER • TRANSOCEAN CLIPPERS

BOEING

A Different Kind of Weather Protection—Du Pont "Zelan"

SMART MAN, Father! He can bring home the bacon without getting wet—in his "Zelan"-treated raincoat. Rainsplashes right off clothes protected with "Zelan." For "Zelan"...

SHEDS WATER!



"YUM, YUM!" says Anne. And if the icing splashes, Mother won't mind. A damp cloth wipes non-greasy spots right off "Zelan"-treated playclothes. For "Zelan"...

RESISTS STAINS!



BACK FROM THE CLEANERS comes Father's "Zelan"-treated jacket. It will still shed water, resist stains. Standard Army spray test proves, when clothes are properly washed or cleaned, "Zelan"...

WON'T WASH OUT!



weather protection
that won't
wash out



Du Pont Zelan

REG. U.S. PAT. OFF.



DU PONT, WILMINGTON 28, DELAWARE

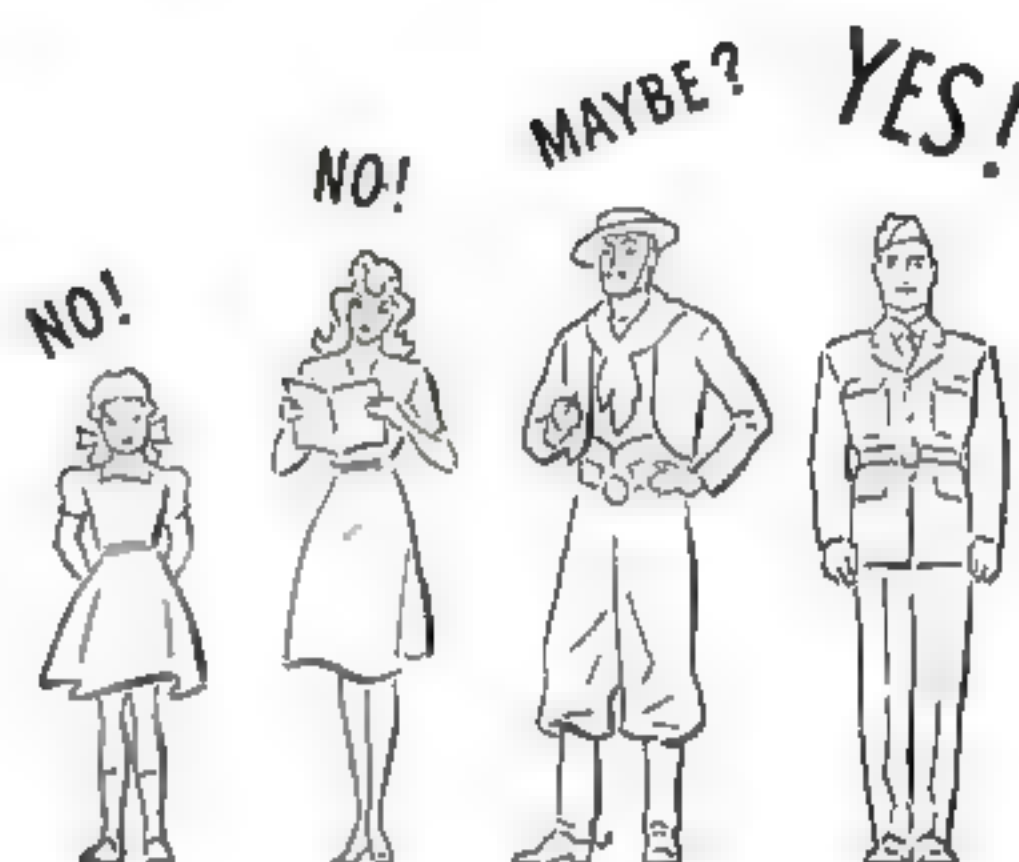
BETTER THINGS FOR BETTER LIVING... THROUGH CHEMISTRY



Powerful legs and well-muscled body supply drive that makes Buden Young a sensational sprinter and hurdler. He won the state dash championship when he ran for Chicago's Wendell Phillips High School. His average performances have raised 100-yard track meet attendance from 200 to 2,000. Though 1A in class, he is regarded as a premed student. Besides being a track star, he gets top grades in his courses.

CONTINUED ON PAGE 52

CORRECTION PLEASE!



*Corona Portable Typewriters are not yet available for general civilian distribution**

Recent news of limited resumption of office typewriter manufacture by our Syracuse plant has started a flood of inquiries about portable typewriters also.

But our facilities for portable machine manufacture are still almost totally required by our armed forces; and the trickle of new portables now made is completely absorbed by Army, Navy, and Maritime Commission, plus authorized export allocations. So civilian orders cannot now be filled.

However, this widespread demand for Coronas leads us to make you this definite promise: *We will not lose one unnecessary hour*

in getting back into portable production when authorized.

As earnest of this intention, we announce that when portable manufacture is resumed, we shall concentrate our facilities on the four popular pre-war models illustrated below; we will not wait for the perfecting and testing of post-war refinements.

Put it this way. You want portables . . . lots of them. We can make lots of them . . . *fast* . . . if we don't take time out to re-tool for changed designs. So while undoubtedly we'll have new designs to offer some day, we'll postpone that job until later . . . and

give you as fast as possible the four fine portables that America was buying so heavily before the "freeze."

We hope you will approve this decision.



SMITH-CORONA
Typewriters

L C Smith & Corona Typewriters Inc Syracuse 1 N Y

*Subject to possible changes in regulations subsequent to going to press; consult your local Smith-Corona Branch Office or Dealer.



CORONA SILENT



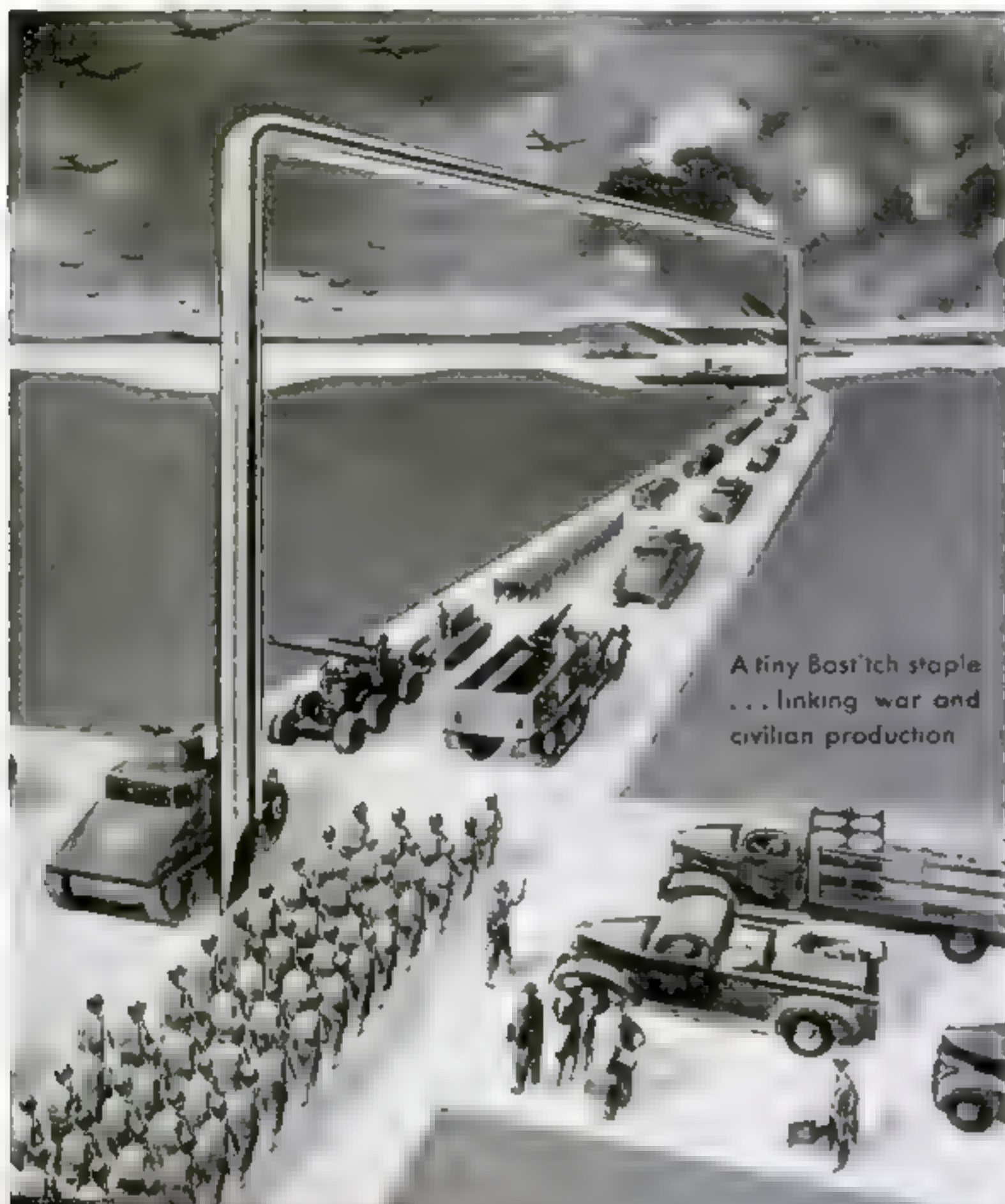
CORONA STERLING



CORONA STANDARD



CORONA ZEPHYR DELUXE



Ready?

INVASION and war products *must* have right-of-way when and wherever needed... but Industry *must* be ready, when the signal changes, for a quick crossing or for open traffic... in order to carry on at full time and full speed... to furnish real jobs for those released from the services and from war plants. This requires planning — now!

If your planning involves fastening... consider Bostitching... whether your materials are plastics... metals... cloth... wood... paper... leather... or whether you are now using riveting... welding... gluing... nailing... tying. Bostitching may speed up your production... and cut your costs... as it has done in thousands of war and peace-time applications.

Investigate Bostitching... especially the new Bostitch

"When-Available" Plan

which gives priority to your future needs... helps you to prepare and us to plan... to meet opportunities quickly as they arise... without interfering with war work. Write for "W A" folder.

Bostitch (Boston Wire Stitcher Company), 48 Division Street, East Greenwich, R. I. Bostitch-Canada, Ltd., Montreal

Below: One of 800 Bostitch stapling devices. Bostitch automobile-aircraft stitcher... stitches aluminum, steel, plastics, together or to other materials... 300 stitches per minute



BOSTITCH

AND FASTER
fastens it better, with wire

ALL TYPES OF STAPLES APPLIED BY MACHINES
ALL TYPES OF MACHINES FOR APPLYING STAPLES

The Young Family (continued)



Track medals Buddy has won are turned over to his mother for safekeeping. She gives credit for the Young running talent to American Indian blood in the family.



Around the piano the Youngs sing for their mother on Sunday afternoons. Note Buddy's striking tie. He also likes to lounge around Sunday mornings and read funnies.

Wiggle and Squirm

THESE PANTS HOLD FIRM!



THEY'RE HELD IN PLACE WITH *Contro**
... THE ELASTIC YARN THAT GIVES
GREATER FREEDOM AND BETTER FIT!

RUBBER is a precious commodity these days. Every ounce of it is needed for the armed forces and essential civilian services. Manpower, machinery and plant space are precious commodities, too. And all of Firestone's workers, machines and plants are turning out war materials to speed the day of victory. That's why *Contro**, the elastic yarn that keeps things snug, became a war casualty.

So Junior's pants may not fit as comfortably or as securely as they did before the war. But some day — soon, we hope — Firestone will begin making *Contro** again. And it will be better *Contro** than the pre-war kind, because tremendous improvements will result from war-time experience.

Yes, in producing for war, Firestone is also preparing for peace — developing many new products for the world of tomorrow that will bring mankind greater comfort, greater convenience, greater safety and greater economy. One of these is *Contro** and you'll be amazed how many things will be made with it after victory. So put your money into War Bonds and keep them. Then you will be ready for *Contro**, when *Contro** is ready for you!



Listen to the Voice of Firestone with Richard Crooks and the Firestone Symphony Orchestra, under the direction of Howard Barlow, Monday evenings, over N. B. C.

Bathing suits fit like a second skin when *Contro* is woven into the fabric



Shoes hug at the heel, hold at the arch when elasticized with *Contro*



There's plenty of freedom of action when a girdle is made with *Contro* elastic



No need for tight, uncomfortable garters... hosiery with *Contro* tops hold firm

Another contribution to a better way of life by

Firestone

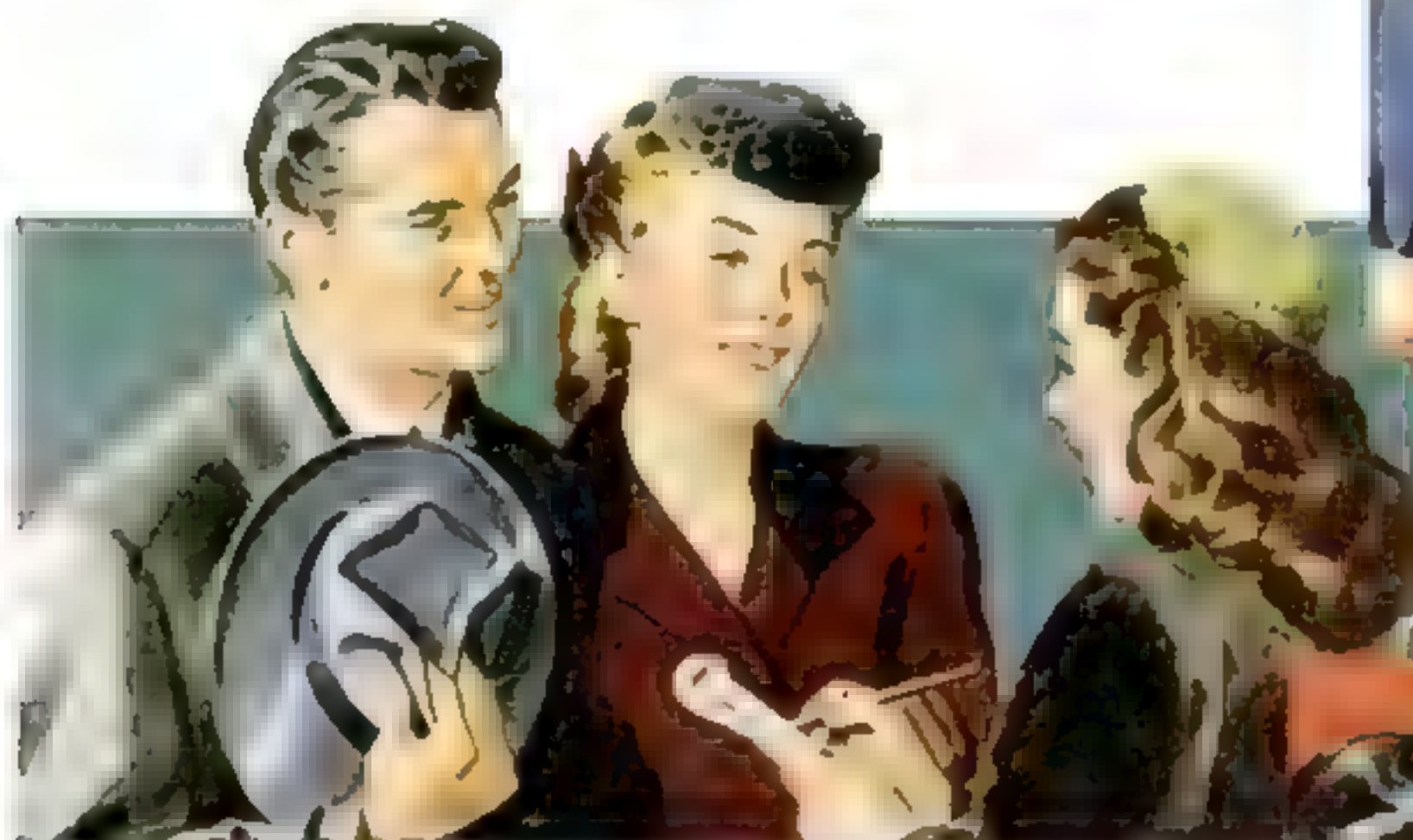
1 out of every 3 Smokers Wanted it!

**THIS CIGARETTE IS MADE DEFINITELY Milder—
BECAUSE 34% OF ALL SMOKERS INTERVIEWED ASKED
FOR A Milder CIGARETTE**

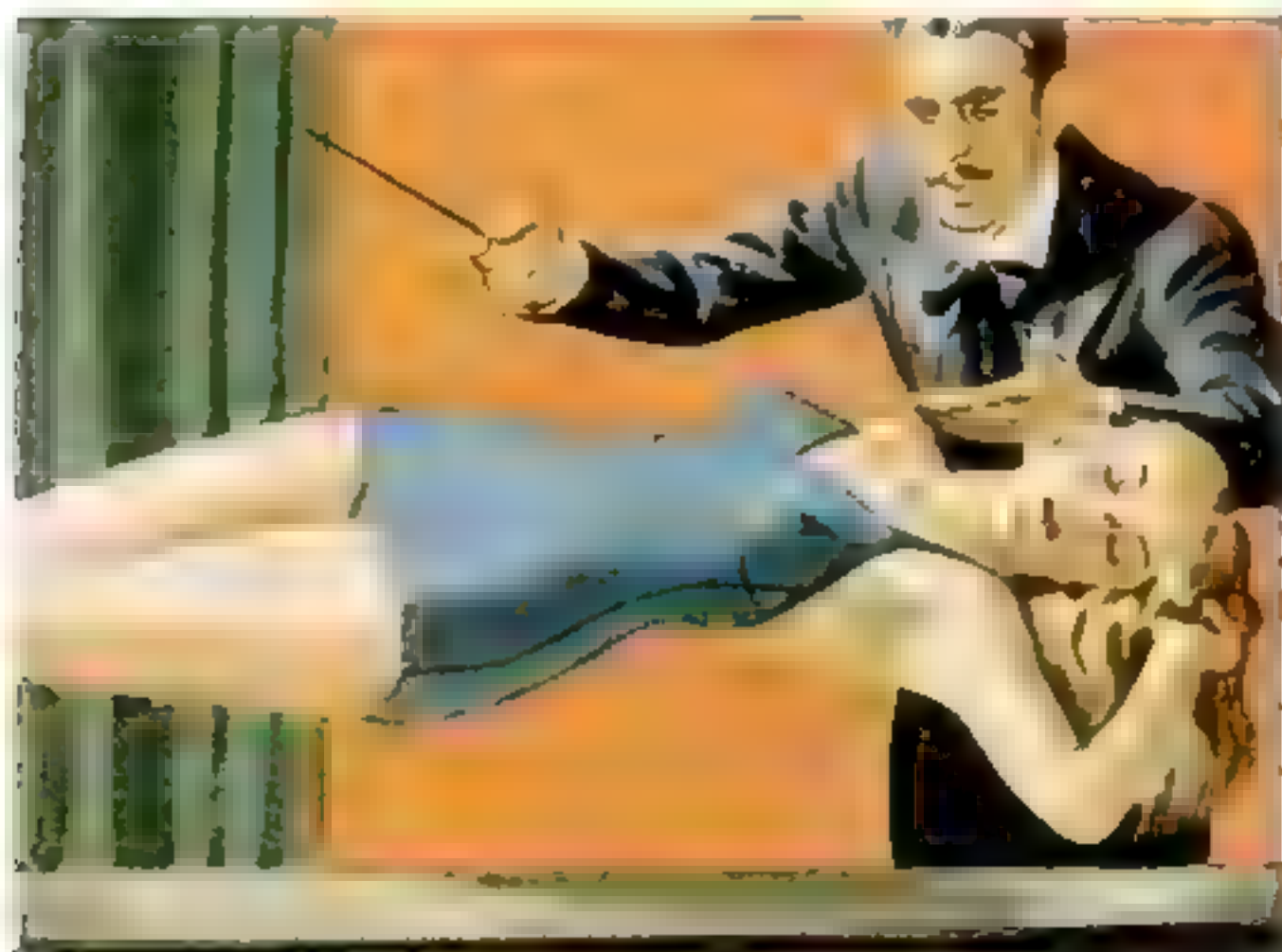
IT'S A FACT that literally millions of smokers want a milder cigarette. If you're one of them, you've probably wondered just why your present brand wasn't made milder. Here's the answer. It can be done. Any good tobacco blender can do it. But there's a risk in changing an established brand because other people may like it the way it is. So—only a *new* cigarette can bring you the mildness you want—the mildness that comes from using definitely milder tobaccos!



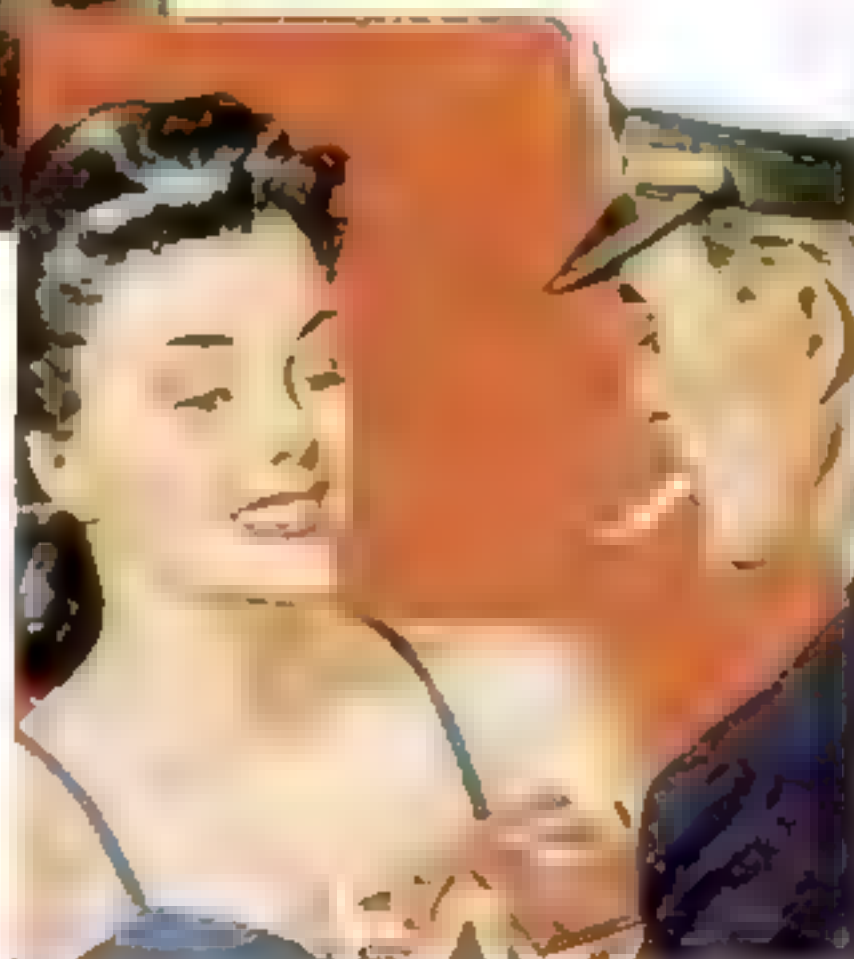
Not just a "claim"—but definitely milder! As you probably know, the milder tobaccos are the better tobaccos—they are graded, bought and sold as milder. So, because such a large percentage of smokers asked for it, All American cigarettes are made of these definitely milder tobaccos.



34% of all smokers interviewed asked for a milder cigarette. We questioned men and women smokers from coast to coast. 1 out of 3 asked for a cigarette that's definitely milder than their present brand. That's why we made All Americans of definitely milder tobaccos.



It's not done with mirrors! Any cigarette can be made milder by using milder tobaccos. There's no mystery about it! But it isn't good business to change an established brand—many smokers may like it the way it is! So—only a *new* cigarette can bring you this milder smoke!



No blindfold test needed! All Americans demonstrate themselves. You don't have to go into a trance—as soon as you smoke one you'll notice the difference. You'll be buying cigarettes today or tomorrow anyway—so why not try a pack of All Americans and see for yourself!



Why Turkish? It takes rich Turkish and Maryland tobaccos to give a cigarette full-bodied flavor. So we've put in plenty of these richer yet milder tobaccos to give you what so many smokers want—greater mildness with flavor!

ALL AMERICAN

CIGARETTES

THE AXTON-FISHER TOBACCO COMPANY, INC.
LOUISVILLE, KENTUCKY

A. P. HERBERT AND THE THAMES PATROL

HE DOES HIS BIT FOR ENGLAND AS AUTHOR, ASTRONOMER, M.P. AND CONSERVATOR OF THE THAMES

by JOSEPH J. THORNDIKE JR.

All is quiet along the Thames this morning. The river is free of mines, the shore watch is on the alert and the enemy dares not show his face. I make this report after a nocturnal tour of inspection with one of the men directly responsible for this state of security, Petty Officer Alan Patrick Herbert, R. N. P. S., M. P., Thames Conservator and commanding officer of the Naval Auxiliary Boat *Water Gipsy*.

Petty Officer Herbert is Britain's No. 1 humorist, perennial contributor to *Punch* and author of numerous books and shows. He is also a Member of Parliament. The day before the war started he was mobilized, along with his private cruiser, as part of the River Emergency Service and has been patrolling the Thames ever since. Thus A. P. Herbert occupies a position of triple distinction in England, which would only be paralleled in the U. S. if Robert Benchley were a member of Congress with a private yacht in which he patrolled the Potomac for the U. S. Navy.

I had arranged to meet Mr. Herbert last eve-

ning in a small pub beside the river, about 20 miles above London. It was a night of absolute blackout, unrelieved by moon or star. A cold dampness, not quite fog, hung over the river which flowed past invisible to a man standing on the bank. Even the pub, one of many thoughtfully provided by the English as a refuge from the dismal river night, was a rather chill and cheerless spot. I was having an 'arf bitter and hearing about a man who had jumped into the river the night before when Mr. Herbert entered, followed by a young seaman.

After apologizing for "not looking very sheveled" (though in fact he was quite kempt) he peered around the little pub and inquired: "Where are Boghurst and Westbody?" These gentlemen, it developed, were two Civil Defense officers who had undertaken to meet us in the pub in order to ride on the *Water Gipsy* during her night exercise. "Tom," said Mr. Herbert to the sailor, "go and look for Mr. Woghurst and Mr. Westbury." Tom parted reluctantly from a large mug of beer and disappeared into the black-

out where we heard him hallooing in vain for the missing dignitaries.

It was now time to start the night's exercise, and since there was no sign of the lost officers we started for the river. "Poor Wodburst," said Mr. Herbert, peering into the darkness, "poor Westbody." We groped our way to the bank, where Tom was waiting in a tiny dinghy to row us out to the *Water Gipsy*.

As we cast off and started down the river, Mr. Herbert explained the purpose of the exercise. In the days of the blitz, when the Germans used to drop mines in the Thames, an elaborate system of watches was set up all along the river. No mines have been dropped now for almost two years, but the mine watchers still stand guard. To keep them on their toes, the *Water Gipsy* makes periodic night trips and at stated points on the river performs certain suspicious-looking acts. The watchers on the bank are supposed to make note of these and report them to headquarters.

For this exercise the *Water Gipsy* carries a small balloon, five feet in diameter, attached to the

CONTINUED ON NEXT PAGE



A. P. HERBERT STEERS HIS CRUISER "WATER GIPSY" PAST HOUSES OF PARLIAMENT. THE BOAT WAS BUILT TO HIS SPECIFICATIONS, NAMED AFTER HIS FIRST SUCCESSFUL NOVEL.

Douglas Craftsmanship at its Best



THE ETON

THE WINGATE

\$6.50 - \$8.50

Other styles \$5.50

Your shoe ration coupon becomes
a passport to satisfaction when you
spend it on W. L. Douglas Shoes.

Made with unhurried care and styled
for sound good looks, W. L. Douglas
Shoes are, truly . . . Craftsmanship at
Its Best!

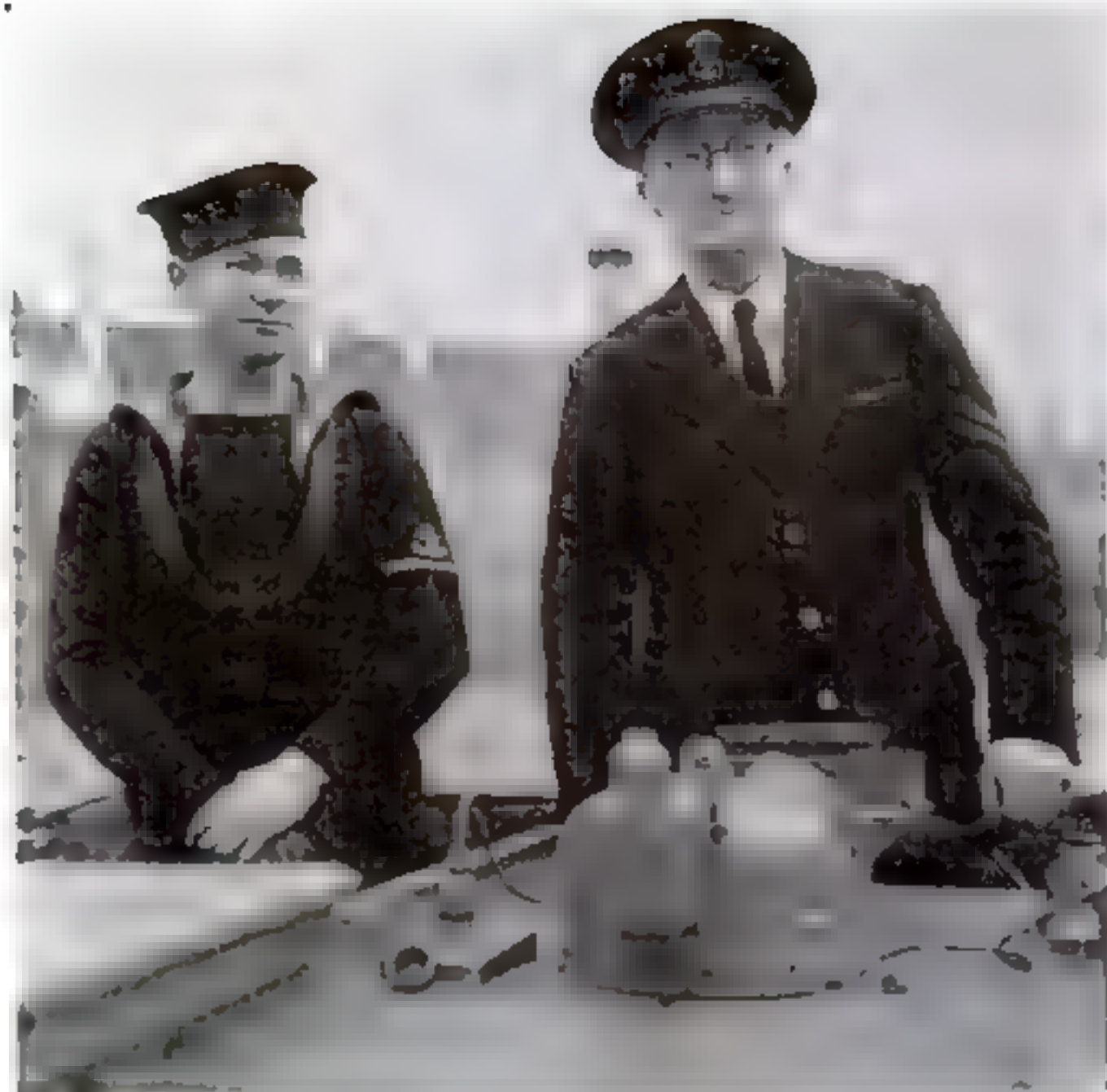
**W. L.
Douglas**
W. L. DOUGLAS SHOE CO.,



Shoes
BROCKTON 15, MASS.

Stores in Principal Cities Good Dealers Everywhere
America's Best-Known Shoes

BUY ANOTHER WAR BOND



Britain's No. 1 humorist, Petty Officer Herbert has been on River Emergency Service since Sept. 1, 1939. With him at the wheel is Coxswain Tom Cheeseman, a Yorkshire lad.

A. P. HERBERT (continued)

stern by a cable about 100 feet long. At the base of the balloon is a light which can be flashed on from the boat. When we reached the first point in the exercise Tom sent the balloon up, flashed the light on it and hauled it down again. The whole operation took about six seconds. When it was completed a light shone from the shore in recognition.

As we proceeded down the river this exercise was repeated every few hundred yards at prearranged stations. Each balloon ascension was accompanied by an exchange of curious sounds between Mr. Herbert at the wheel and his two crew members, Tom and Stan. Mr. Herbert is inclined to swallow his words, while Tom and Stan speak respectively in a Yorkshire and a Lancashire accent. Not only to an American ear does this offer difficulties. The boys complain that it is "ard to tell what the Skipper's sayin'" while Mr. Herbert admits he "can't understand 'em half the time." Despite this linguistic obstacle, the exercise proceeded smoothly. After most of the ascensions we got an answering flash from the shore. The watchers are supposed merely to report the balloon to headquarters, but most of them also flash a friendly acknowledgment to the *Water Gipsy*.

Late in the evening we finished the course and tied up at a pier, Mr. Herbert bade me goodnight and, as I went ashore, called after me, "Too bad about Boghurst and Wetbottom." (They had, it turned out later, been waiting at the wrong pub.)

Saving a suicide; searching for mines

This night exercise is only a small part of Mr. Herbert's work. During the day he patrols a 60-mile "beat" between Teddington and Southend, performing such varied duties as helping a lighter in distress, saving a suicide or searching for old, unexploded mines on the bottom. It is a full-time job, requiring Mr. Herbert to be ready for action day or night and to sleep on board the *Water Gipsy*. For a man who served in the last war and has five grandchildren, life on the Thames in winter is a rugged assignment.

The *Water Gipsy* was built for Mr. Herbert before the war, especially for cruising on the Thames. To the effete yachtsmen of Long Island Sound, used to sleek lines and gleaming brass, it might seem an unlovely craft. But it was designed to Mr. Herbert's specifications, based on a deep knowledge of the river, and it has the true beauty of the functional. If it looks rather like a mud scow, that is because the Thames is a very muddy stream, filled with shallows and bars and swept by a strong tide with treacherous currents. Below deck the *Water Gipsy* has an engine room, a tiny cabin with two narrow bunks and a tinier galley where one of the crewmen cooks meals. In the fore part of the boat is a coal grate which scarcely serves to dissipate the damp river chill, but discharges a continuous cloud of smoke over the deck. When Mr. Herbert is at the wheel, this smoke customarily

CONTINUED ON PAGE 13



POOH!

My dog is so happy
because he's eating
GAINES!

SPEAK FOR GAINES!

... the **COMPLETE MEAL** that has scored
a Complete Success with kennelmen for years

AT DOG DINNER TIME...



his happiness is COMPLETE!

Meat scarce? Meet GAINES! It's the meal that tastes so good it makes old dogs act like puppies, and puppies can't keep their tails still when GAINES Meal-Time comes round. 92 out of 100 dogs—according to actual count—gobble up GAINES the very first time a dish is set before them!

ITS LOW COST
WILL MAKE...



your joy COMPLETE!

Here is the news concerning GAINES almost too good to be true. The meal that supplies complete nourishment, the meal that dogs just love, the meal prepared so quickly, the meal that's used by breeders of famous show-ring dogs, the largest selling dog food in all America—is sold on a money-back guarantee, and actually Costs You Less!

FROM HEAD TO TAIL...



his nourishment is COMPLETE!

From the tip of that cool, moist nose to the tip of his wagging tail, every part of your dog is nourished for health and strength and glossy coat—*completely* nourished—by GAINES. This is the meal—the identical brand—used by prize-dog breeders, and endorsed by veterinarians and by famous kennels for years!

ADD WATER
AND STIR...



and his meal's COMPLETE!

Just see what GAINES Meal gives your dog—to nourish him completely. Meat meal, cereals, milk nutrients, dehydrated vegetables, minerals, and vitamins aplenty! To measure, mix and cook such a meal—you'd think it would take you ages. But you take no longer to mix it than your dog takes to gobble it up!



THE COMPLETE! ANSWER to your dog food problems

- 1. A complete meal.** A balanced formula combining meat meal, cereals, dehydrated vegetables, milk nutrients, minerals, vitamins A, B₁, B₂, B₆, D, E, niacin and pantothenate... tested for adequacy, digestibility and easy assimilation.
- 2. Dogs like it,** and don't tire of it. America's biggest-selling dog food!
- 3. Easy to feed.** Merely mix it with water and stir.
- 4. Economical.** GAINES actually costs less to feed than meat and the usual type of baked or canned dog foods. It is sold in 2-lb., 5-lb., 10-lb., 25-lb. and 50-lb. bags. No ration stamps are needed. At your dealer's, speak for GAINES!



ALL THE VITAMINS Gov't Experts and Doctors agree are essential... *and vitally needed MINERALS!*

WHY ENVY PEOPLE who are full of vim and sparkle? Why let yourself get nervous or run-down from a lack of sufficient vitamins and minerals in your diet?

Right now you may need Vimms! Government surveys showed that 3 out of 4 people were not getting enough vitamins and minerals in their daily diet. Other surveys show similar results. Vimms were especially designed to correct these deficiencies.

ALL THE VITAMINS—So why buy a product that gives you only A and D or just B-Complex? Science shows that if you lack one vitamin you almost always lack others. Vimms contain all

the vitamins Government Experts and Doctors agree are essential to help build resistance, maintain energy, keep you at your best—including costly Vitamin C.

VITAL MINERALS—In addition to all these vitamins, Vimms also bring you essential minerals. Calcium and phosphorus necessary for strong bones, teeth, and body tissue; iron necessary for good, rich blood. That is why Vimms come in three tablets a day. No product which offers you only one tablet or capsule per day can give you all those benefits of vitamins and minerals both.

No other product at any price matches all of Vimms' advantages

Vimms cost only a few cents a day. Start every day with 3 Vimms at breakfast—and get that **VIMMS FEELING!** Lever Brothers Company, Pharmaceutical Division, Cambridge, Mass.



MY CHILDREN LIKE
VIMMS, TOO—THEY
TASTE SO GOOD



GET THAT VIMMS



FEELING



Herbert's pier, which leads directly from his backyard to the river, enables him to get from his parlor to the *Water Gipsy* in a few swift motions when the Empire is imperiled.

A. P. HERBERT (continued)

streams back in his face, further lowering the normally low visibility of the Thames atmosphere.

Mr. Herbert takes a sort of proprietary interest in the Thames. He has lived on its bank, at Hammersmith, for 25 years and is a member of the Board of Thames Conservators, by appointment of His Majesty. Long before the war he and his craft were so well-known that the sight-seeing boats which used to ply the river in peacetime always included him, somewhat to his embarrassment, among the objects of interest. Mr. Herbert, enjoying the sun on deck on a summer afternoon, grew used to the voice of the barker shouting: "Just ahead is the Tower Bridge, and on your right Mr. A. P. Herbert, the well-known humorist, enjoyin' his siesta."

Mr. Herbert, who entertains the novel idea that the Thames at London is fit for swimming, is probably the only man of letters who has swum from Waterloo Bridge to Westminster Bridge. This memorable feat was the result of a sudden impulse one summer afternoon when the *Water Gipsy* was tied up near Waterloo Bridge. Diving quietly into the murky water, Mr. Herbert floated along peacefully, submerged except for a tuft of gray hair and a beak nose, until two passing canocists sighted him. Paddling up, they inspected him closely and inquired: "Aren't you A. P. Herbert, the famous humorist?" Somewhat disconcerted, Mr. Herbert admitted he was and paddled on under Charing Cross Bridge, from which a small boy spit at him, missing. The sight-seeing boat was now approaching and Mr. Herbert sank low in the water, pretty sure that for once he could remain incognito. But as she chugged past, he heard the barker shouting: "On your left the 'Ouses of Parliament, on your right the London County 'All. Up ahead, just in front of the famous 'Otel Savoy is Cleopatra's Needle, brought all the way from little ol' Egypt, and the gentleman in the water is Mr. A. P. Herbert, the well-known humorist." Mr. Herbert made land a few moments later at Westminster Bridge, and climbed dripping from the Thames to the cheers of a small gathering.

Why he missed the war speech in Commons

Like many other yachtsmen, Mr. Herbert signed on for the river patrol a little after Munich and went on active service Sept. 2, 1939, the day before Britain declared war. Since his first station was at Lambeth Bridge, almost outside the Houses of Parliament, he went ashore on Sept. 3 to hear Prime Minister Chamberlain deliver his war speech. But just before the House met the air-raid sirens sounded and Mr. Herbert made a dramatic exit from the Commons, rushing down to his waiting dinghy at the Speaker's Stairs. While his fellow M.P.s cheered lustily from the Terrace, the Member from Oxford University climbed aboard his boat and chugged off to defend the heart of the Empire. Like a good many others, he half expected the city to be destroyed that day.

The *Water Gipsy* had a narrow escape a few months later, when a bomb missed her by only a few yards. But her real trial by fire began on Sept. 7, 1940 when German bombers made their first spectacular attack on the London docks. On that terrible night she was the first boat to get through the half mile of flaming warehouses, wharves, piers and drifting barges by the Surrey Commercial Docks. The west wind blew a sheet of smoke and sparks across the river and Mr. Her-

CONTINUED ON PAGE 44



Man's Watch shown above—VERI-THIN TAPERFLOW, 17 jewel Precision movement, pink or yellow gold-filled case, Guildite back . . . \$39.75

3 Qualities to look for in a wristwatch...

ACCURACY is what you need most in a wristwatch . . . every Gruen Veri-Thin is a superbly accurate timepiece with a 70-year tradition of accuracy behind it.

BEAUTY is what you prize most . . . the loveliness of the exclusive, patented Gruen Veri-Thin has made the country's top fashion designers call it "America's smartest watch."

VALUE is what every Gruen Veri-Thin gives you . . . matchless value, because Veri-Thin prices start at \$29.75.

It's not a Veri-Thin unless it's a Gruen. Ask your Gruen jeweler to show you.

Gruen watches, at Gruen jewelers only, from \$29.75 to \$250; with precious stones to \$4000. Prices include Federal tax. Write for free folder "C." The Gruen Watch Company, Time Hill, Cincinnati, Ohio, U. S. A. In Canada: Toronto, Ontario.

Lady's Watch shown above—VERI-THIN LARKSPUR, 15 jewels, pink or yellow gold-filled case, Guildite back. \$33.75

From only \$29.75

While we are manufacturing large quantities of vital precision instruments for war, we are also continuing to produce fine Gruen watches for civilian use . . . but of course the demand for these watches far exceeds production possibilities today.



U.S. PAT. OFFICE PATENTED U.S. PAT. NO. 2,848,212 CANADIAN PATENT NO. 599,910.
"Precision," "The Precision Watch," and "Veri-Thin" are the Registered Trade Marks
of The Gruen Watch Company. Copyright 1944, The Gruen Watch Company.



GRUEN . . . MAKERS
OF THE PRECISION
WATCH . . . AND
PRECISION
INSTRUMENTS
OF WAR

America's Best Braces

by
HICKOK

A wide selection of colors and patterns, well-made, comfortable. This brace, inspired by Campaign Colors, \$1.50 everywhere.

by
UNCLE SAM

War Stamps and Bonds...a wide selection of colors and denominations...from 10¢ up. Buy them anywhere, often!



At the Black Lion, a London pub, he lets fly with his "cheese" in a skittles game. Herbert prefers esoteric "cheese" skittles to the more conventional "long-alley" skittles.

A. P. HERBERT (continued)

bert wondered whether his wooden, petrol-burning boat would get through, but the *Water Gypsy* made it with no more damage than the scars of a few bomb fragments.

The high point of the *Water Gypsy's* battle service came four nights later. A fire had broken out above Lambeth Bridge and Mr. Herbert ran up past the Houses of Parliament to see if he could help. The Navy had not then provided the *Water Gypsy* with any arms but Mr. Herbert had just acquired unofficially, from a certain ministry, a Lewis gun. It was a clear night, the German planes were coming over low and Mr. Herbert's mate was longing to have a go at them. They made fast to a lighter and the mate blazed happily away for most of the night. Their weapon was not one that is ordinarily effective against aircraft and there is no proof that it brought down any planes. But as Mr. Herbert remarks: "It was a contribution to the first good noise that British guns made in the blitz. Furthermore it was the most westerly action ever fought in the River Thames."

The higher command, however, took a poor view of this action. Someone had shot down a barrage balloon and the *Water Gypsy* was suspected. The next day Mr. Herbert was pursued at every station he visited along the river by peremptory messages to explain why he had fired without orders. Considerably aggrieved, he sat up until 2 a.m. the next morning writing a long report in which he denied shooting down the balloon and inquired whether in fact he was not permitted to fire his weapons except in case of attack upon his own ship. "Such a limitation," he concluded, "does not appear to be in accordance with the traditions of the Royal Navy and will be observed with reluctance by the crew of this vessel." The Admiralty failed to answer this question directly, but Mr. Herbert felt that he had scored a moral victory when his commanding officer, upon meeting him shortly afterward, remarked: "I say, old boy, you don't want to go on with that, do you?"

In the three and a half years since the Battle of Lambeth Bridge life aboard the *Water Gypsy* has grown much quieter. There is still plenty of hazard in the fog, darkness and narrow water but at least there are lights on the bridges and barge roads now and fewer bombs fall. Today Mr. Herbert's full-time naval job does not prevent him from carrying on his two other careers. While piloting the *Water Gypsy* along the river, he may be composing in his mind his next week's poem for *Punch*, or a speech in the House of Commons, or a letter to the *Times*.

"It has been aquating hard"

Herbert letters are apt to be terse and pointed. In pursuit of a campaign against the use of long unwieldy words such as "decontamination," "evacu  " and "dehydration," he once wrote to the editor of the *Times*:

"Sir: It has been aquating hard. I am now going to dehydrate my socks."

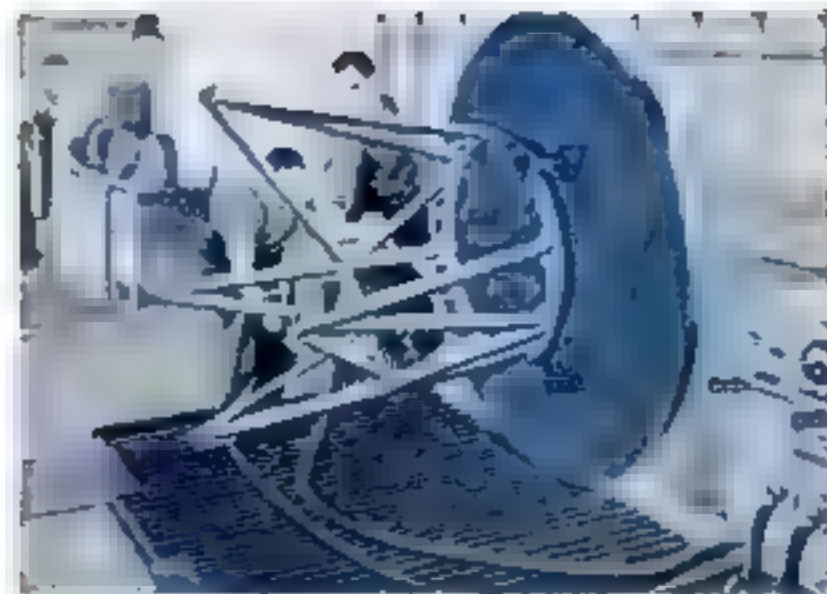
This crusade was foredoomed to failure but others have met with more success, notably his movement to reform the ancient British divorce laws. His attack on this problem was twofold. First, as a humorist, he wrote a book called *Holy Deadlock*. Then, as a legislator, he introduced a private member's bill in the House of Com-



Product of Evans Engineering—a specially designed machine drills, spot-faces and taps, simultaneously, six of the eighteen engine mount lugs.



Evans Welding Division—here, certified welders turn out, to Evans high standards, the tubular structures for the toughest engine mount made.



Magnaflux Department—magnetized, coated with iron oxide and oil, Evans engine mounts are tested for polarity breaks and sub-surface flaws.



cradle for the Corsair's power

Screaming power dive, changing to a climbing turn within a few swift heart beats . . . rolling, twisting, destroying the best the enemy can send—that's the Corsair, Pride of the Navy.

Cradle for the powerful engine in this deadly fighter must be amazingly strong and rigid. Building this engine mount is one of the many Evans wartime assignments which this organization, through years of manufacturing and engineering experience, is covering with dispatch and with honor.

Evans Corsair engine mounts must bear the brunt of extreme stresses at every change in the direction of flight. They must conform to the highest torsional stress peak in aircraft construction.

Evans developed new types of welding fixtures which increased welding efficiency 30 to 40%; Evans also designed special machinery which reduces machining time by 75%; and an Evans conducted school teaches the new welding procedure and advanced technique to carefully selected craftsmen.

When peace comes, Evans products for the home and for industry will be better because of the experience gained in producing for war.

★ ★ ★

Vision to Anticipate the Needs of Tomorrow
Creates New Industries Today

Evans PRESIDENT



EVANS PRODUCTS
COMPANY
DETROIT

Evans War Products: Machine Gun Mounts • Tank and Automotive Heating and Ventilating Equipment • Evansite Water Heaters • Aircraft Engine Mounts • Airplane Landing Gear Beams • Battery Separators • Prefabricated Houses • Plywood • Skyloader • Utility Loader • Auto-Loader • Auto-Railer • Auto-Stop • Stampings • Evansite Domestic Heating Equipment

THIS IS KNOWN BY *Medical Authorities* about **PHILIP MORRIS**



WHEN SMOKERS CHANGED TO PHILIP MORRIS, EVERY CASE OF IRRITATION OF NOSE OR THROAT—DUE TO SMOKING—EITHER CLEARED UP COMPLETELY, OR DEFINITELY IMPROVED! Facts reported in medical journals on clinical tests made by distinguished doctors . . . Proving this finer cigarette is less irritant!



A. P. HERBERT (continued)

mons and got it passed, in wartime, without government support. This law, under which it takes a minimum of three years to get a divorce, might not seem very lenient to the Nevada State Legislature. But in comparison with previous British law, it was revolutionary.

Mr. Herbert's latest campaign, inspired directly by his nocturnal cruises on the Thames, is to reform the system of astronomical nomenclature. He has devised a whole new set of names for the stars. Under his system the constellation Orion, for instance, including such stars as Betelgeuse, Bellatrix, Alnilam and Nair al Saif, becomes the constellation "The Sailors," made up of Nelson, Hawkins, Drake, Cabor, Cook, Columbus, da Gama and Magellan. If he is accused of taking a narrow point of view in choosing mostly British sailors, Mr. Herbert can point out that adequate attention is paid to other nationalities in other parts of the sky. His constellation "Tyrants" (Draco) is wholly foreign, including Hitler, Mussolini, Robespierre, Tamerlane, Attila and Kubla Khan.

Mr. Herbert presented his new system to the Royal Astronomical Society, which replied cautiously: "Your suggestion was received with appreciation. At the same time it was felt that as far as astronomy was concerned, the adoption of such a change would require international agreement, which is clearly impracticable at the present time."

It is convenient for Mr. Herbert that his place of business, like his home, is directly on the river. If he should decide tomorrow to introduce a bill for changing the names of the stars, he could simply tie up the *Water Gipsy* at Westminster Pier, step across the street, hand in his bill to the clerks, and return to his boat. Any Herbert bill is bound to receive attention and courteous treatment from the House of Commons. For Mr. Herbert is responsible for keeping mines out of the river which flows past the walls of the House. And no one knows when the Germans may again start dropping mines in the river.



Stars need new names, Herbert says in his recent book *A Better Sky*. He finds old names "inapt, unfitting, unworthy." His views have made little progress among astronomers.

You press the button...it does the rest



Kodak's K-24 Aircraft Camera is completely automatic. In reconnaissance, you push a switch button on your "stick" and the camera, in the nose, clicks away. In a bomber, it's in the plane's belly, connected through complex electrical controls, with the bombsight itself. Its focal plane shutter, power operated, has speeds of 1/50, 1/450, 1/900, and "time."

It is fitted, as are most other aerial cameras, with Kodak aerial lenses, including Kodak Aero Ektars incorporating elements of Kodak's revolutionary new optical glass... interchangeable in a range of focal lengths and speeds for different missions. Uses Kodak Aero Film in interchangeable magazines holding 56 feet, enough for 125 pictures, 5 inches square.



K-24 Aircraft Camera,
built by **Kodak,**
"runs its own show"

Bombardier, at left, is hunched over his bombsight which is electrically coupled with the camera, back in the belly of the bomber, automatically taking pictures every time bombs are released. At right is a gunner covering the nose with his "fifty."

TANGLING with fighters and flak while you make a bombing run... or scurrying over enemy country at low altitude on a reconnaissance job... the last thing you have time for is "keeping a snapshot record of your trip."

Yet, in reconnaissance, that's really what you're out for—and in bombing, you want to bring back "picture information" on the relation of your falling bombs to the target... for the camera has the ability to make a record of details you couldn't possibly see and remember.

Pretty hopeless, without a camera that "runs its own show." Kodak's K-24 is built to do just that.

On a reconnaissance flight—with no bombs to unload—you press a button for each picture, operating the fixed-position camera by remote control. Or if you want to make a series of shots, simply hold the button down, and the camera takes 3 pictures a second.

"Chalking up the score" in the training of bombardier and pilot is another vital phase of the K-24's activity—to

know how good you're getting to be, you consult the photographic evidence.

The K-24 is no hero—the men who do the flying play that role. But it does take a lot off a hero's mind.

EASTMAN KODAK COMPANY
ROCHESTER, N. Y.

REMEMBER THE PLOESTI RAID?—how at the cost of more than 500 trained fliers, our Liberators fought through one of the most heavily fortified areas in the world, to drop the bombs that knocked out one-third of Germany's oil supply? How some of the pilots who missed the target on their first run, turned back and flew through solid sheets of flame to try again? A stern example for us at home. BUY MORE WAR BONDS.

Serving human progress through photography

SUMMER'S NO CIRCUS

It may have to last



TUNE IN RAYMOND GRAM SWING
Blue Network, Coast-to-Coast
10 P. M., E. W. T., Mon. Tues. Wed. Thurs.

**AFTER VICTORY! FLYING
HORSEPOWER**

AT THE SIGN OF FRIENDLY SERVICE



Mobilgas

Mo

**for your Old Car's Horsepower!
for 2 Years After the War!**



Change to Fresh Mobiloil

**Older Cars Need Better Care—Only High Quality Motor
Oil and Complete Summer Servicing can Fully Protect
Your Car—SEE YOUR MOBILGAS DEALER NOW
at the Sign of Friendly Service!**

ALARMING FACTS SHOW that at the rate U. S. cars are wearing out—actually disappearing from the road—*immediate post-war demand for new cars will far exceed new car production!*

It may be two years after the war before the average motorist can replace his old car!

If your car is to last, it needs the best of everything—the best oil—the best service!

This year, don't be satisfied with anything less than Summer Mobiloil—the world's largest-selling motor oil! Highly refined, specially processed to help retard formation of dangerous sludge and car-

bon, to give the extra safety your aging motor needs.

This spring, get your Mobilgas dealer's *special summer protection* for radiator, gears, chassis... *special summer check-up* of spark plugs, battery, oil filter, tires, air cleaner and other vital parts. This complete service was planned by experts. Not only helps prevent wear and repairs—but can help you get up to 10% more miles from rationed gasoline!

Lack of care, not age, makes cars grow old. See your *Mobilgas dealer* for complete summer service

SOCONY-VACUUM OIL CO., INC., and Affiliates; Magnolia Petroleum Co., General Petroleum Corp. of Cal.



The Average Car today is 6 years old or older. Protect it with the finest quality products and service.

Mobilgas AND Mobiloil

Where, oh where, has the Baby been?



1. Down in the garden, meeting a beet!

The bestest, rosiest kind of beet it is, too! 'Cause it's going into Clapp's Baby Foods. And a baby (your baby) deserves the best vegetables that grow!



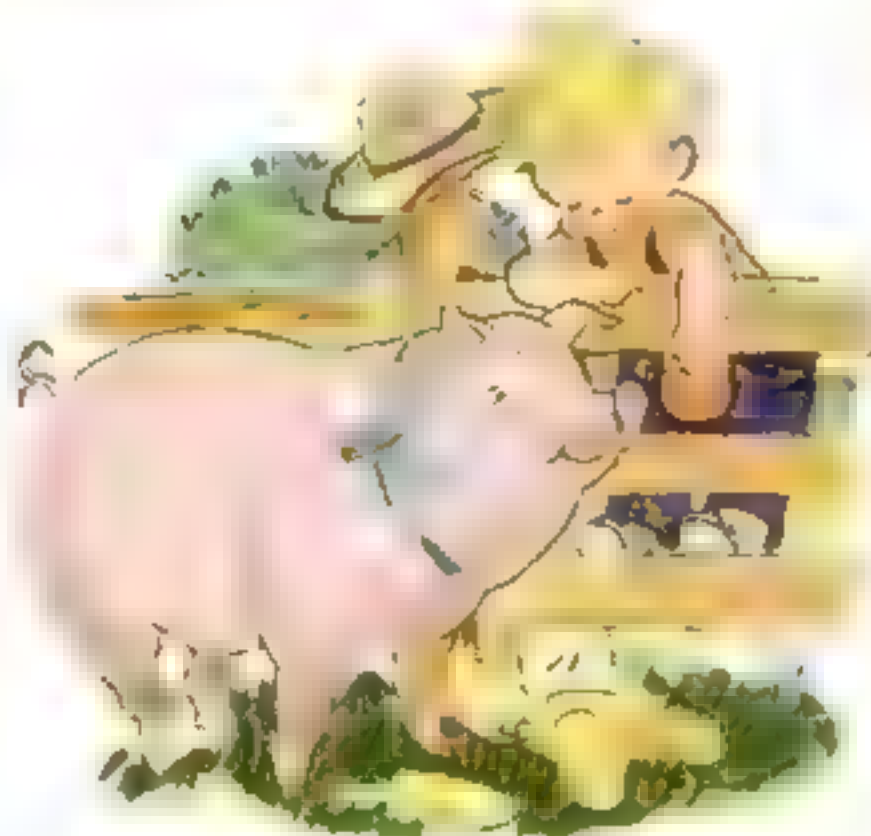
2. Out in the kitchen, seeing a cooker!

What a fine cooker it is—a special Clapp's pressure cooker that knows just how to keep the vitamins and minerals in your baby's food.



3. Away in the post office, checking the mail!

It's mail for Clapp's—from happy doctors who say "Thanks." For Clapp's makes foods the way that doctors say is best for babies.



4. Off in the barnyard, admiring a pig!

Such a wonderful little pig! When he grows up he'll help babies enjoy their vegetables—by giving a delicious, tangy flavor to Clapp's Vegetables with Bacon.



5. Up in his high chair, calling for more!

More Clapp's Baby Foods, naturally! Since Clapp's makes *nothing but* baby foods, it's little wonder that they know all the secrets of making foods taste just right to babies.



6. Back in the pantry, surveying the shelf!

On the Clapp's shelf you'll find 18 varieties of *strained* foods (for little babies), 15 varieties of *junior* foods (for older babies), and 2 pre-cooked cereals (unrationed!)—Clapp's Instant Cereal and Clapp's Instant Oatmeal. Try them and see how "Babies Take to Clapp's"!



All over America, food fights for freedom. Our nation's food supply is precious. Produce and conserve food. Share and play square with it.

CLAPP'S BABY FOODS





CHINESE ARTILLERYMEN FIRE AMERICAN 75-MM. HOWITZER DOWN HUKAWNG VALLEY ROAD, PROBING FOR RETREATING JAPANESE. AT LEFT IS AN AMERICAN LIAISON OFFICER



General Stilwell fights today over same country he left in 1942. His offensive has gained 150 miles, most important Allied advance in Asia since the Japanese invaded Manchuria.

JOE STILWELL'S WAR

U. S. general's Chinese fight on roads of north Burma

The war in Burma is different from the war in the rest of the world, both in the way it looks and in the way it is fought. Because the jungle is too thick for large-scale maneuvering, its campaigns move in narrow spearheads up and down the roads. As miles of road are gained, adjacent territory falls automatically. Sometimes raiding parties hook around the main enemy forces on jungle trails to strike a rear blow, but the road is always their prime objective. In some places Allied troops have fought big offensive actions even though they were cut off from behind. With the Allied air force in command of the air, they could be completely supplied by planes. In fact, even armies with secure ground supply lines have come to depend on planes for their day-to-day needs.

Late last October Lieut. General Joseph Stilwell's two American-trained Chinese divisions began to move slowly down the road in north Burma's Hukawng River Valley, pushing the Japanese in front of them. In the middle of the valley last month their advance picked up when Brig. General Frank Merrill's American infantry hiked through the jungle from the west to cut off part of the retreating enemy. In the trap between these two forces more than 2,000 Japanese jungle veterans were killed. By the end of March the Chinese had followed the road over a low divide into the valley of the Mogaung River, which flows southward into Burma's great Irrawaddy. If the Allies could keep moving, they would eventually drive across the top of Burma into China itself. Behind their advance, crews of American engineers and Chinese laborers hopefully built the road which would open a new land route to Chungking. As the fighters and road builders moved down the valleys, LIFE's William Vandivert made this record of their stout campaigning.



Bulldozer widens narrow road in the Hukawng Valley behind the advancing Chinese. Wrecked trucks at right were abandoned by refugees fleeing Burma in 1942. They have been stripped by Japanese and riddled in passing battles. Note solid mass of bamboo and hardwood beside road.

Chinese and pack animals move down hot, dusty road through Maungkwan, largest settlement in the Hukawng Valley. Burmese weather has only three varieties: cool and dry, hot and dry, hot and rainy. This is the hot and dry season. The rains come with the monsoon in May.





Chinese soldiers rebuild emergency bridge over stream within a long gunshot of front down the valley. Job was completed in three hours from start to finish. American engineers and construction gangs building road behind troops sometimes follow primitive Japanese road, some-

times cut off to higher ground. Japanese road is serviceable only in dry weather. When American-Chinese road is finished, it will be open all year round. Part of troops building the bridge remain armed because of danger of sneak flank attack by Japanese or sniping from the jungle.



Carrying everything they own on shoulder poles, three Chinese soldiers like these are clearing a way to the front. The Chinese are the greatest walking troops in the world. The Chinese 8th Route Army once walked 6,000 miles in 368 days, fighting as it went along.



Dumping packs in neat rows, Chinese infantry column halts at Maingkwai. Food kitchen is set up under corrugated-iron roof of wire-out-entire background. Before Maingkwai has a population of 1,000 natives. The Chinese are British standard issue for school's course.



Chinese tankmen stand in the hatches of *Mickie*, American M-3 light tank. Column of these tanks under American Colonel Rothwell Brown had just helped slaughter 2,000 Japanese between Maingkwai and Walawbum. Few of these men have had over two months' training.





In a ruined Buddhist temple at Maingwan (below), Chinese officers set up light housekeeping. Nearly all Burmese are Buddhists. The hill people are particularly superstitious, frequently drive stakes into the ground for evil spirits, or *nats*, to sit on. One stake will accommodate 1,000 *nats*.



Captain Huang Chuen-yu, executive officer of artillery battery in the Chinese 22nd Division, washes feet at a command post between orders to fire. While this picture was being taken, Huang's battery of 75-mm. howitzers was under fire from Japanese 150-mm. guns down road.



Using Japanese flag for an apron, Chinese artilleryman eats his bowl of rice in the jungle. After finishing, he removed flag and cheerfully wiped his mouth with it. Some of Stilwell's Chinese are as young as 14, few are older than 25. Their average weight is about 110 pounds.



Roadside barbershop is set up by Chinese artillerymen in cover of jungle thicket. Unfailing good humor of Chinese impressed Stilwell's American officers. Their favorite words are *ting hao*, which roughly means okay, and *fantung*, a jibe something like American "gold luck."

FALSE TEETH WEARERS



**How YOU can Avoid
The Danger of
DENTURE BREATH**

BOBBY acting up again, teacher? Maybe he—and others, too—shy off at your ... Denture Breath. Avoid offending in this way. Don't trust brushing and scrubbing

with ordinary cleansers that scratch your plate material. For such scratches help food particles and film to collect faster, cling tighter, causing offensive Denture Breath.

PLAY SAFE—SOAK YOUR PLATE IN POLIDENT

Do This Every Day!

Play Safe... Soak Your Plate in Polident fifteen minutes, or longer. Polident solution gets at tiny crevices brushing never seems to reach—leaves your plate sparkling clean, ready to rinse and use.

No brushing



What's more... your plate material is 60 times softer than natural teeth, and brushing with ordinary tooth pastes, tooth powders or soaps, often wears down the delicate fitting ridges designed to hold your plate

in place. With worn-down ridges, of course, your plate loosens. But, since there is no need for brushing when using Polident—there's no danger. And besides, the safe Polident way is so easy and sure.



Later—Teacher doesn't worry about Denture Breath now ... she's one of the delighted millions who have found Polident the new, easy way to keep dental plates and bridges sparkling clean, odor-free. If you wear a removable bridge, a partial or complete dental plate, play safe. Use Polident every day to help maintain the original natural appearance of your dental plate—costs less than 1¢ a day. All drug counters, 30¢ and 60¢.

FOOD
Fights for
FREEDOM
products and
conserve—
share and
play square!

Use POLIDENT Daily TO KEEP PLATES AND BRIDGES CLEAN... AND ODOR-FREE!



At observation post along road, Chinese telephone man holds rifle for quick action. In back of him is foxhole; in front, a Japanese helmet. Posts are set up at intervals along the road so that main forces will be ready for any enemy flanking movement.



Watching trail which leads into road, alert Chinese sits behind a British Bren gun. Great danger of fighting is to be cut off by enemy raids which circle main forces on trails. Woods are still full of Japanese who dispersed as Chinese came down road.

CONTINUED ON PAGE 74



Learning a new respect for rest? Most of us are. We're putting more into our regular jobs. We're contributing (or should be) after-hours to war work. Every hour left for sleep must *count*! If you own a Beautyrest, you're lucky. This dream mattress will turn every minute of your rest into *complete relaxation*. Take good care of it because we don't know when you can buy another. BUT, if you *really* need a *new* mattress,

investigate WHITE KNIGHT. It's the "mattress-within-a-mattress" with an enduring buoyancy usually unheard of in a cotton felt mattress. You'll find it tops in wartime mattresses! It's only \$39.50. White Knight Box Spring to match, also \$39.50. Made by Simmons Company, makers of

BEAUTYREST—THE WORLD'S MOST COMFORTABLE MATTRESS!



Yearning for salads of garden-fresh greens? Aching for desserts of fresh fruits? And are you literally itching to get out into a summer garden and pick to your heart's content? Why wait? You can pluck the choicest of the harvest RIGHT NOW... in the Fresh Fruit and Vegetable Department of your A&P Super Market!



You'll find the answer to your needs for Fresh Fruits and Vegetables at your A&P Super Market... because your A&P offers the bounties of harvest time the year 'round. You see, A&P has developed one of the world's ablest organizations for finding and marketing the best of crops from every growing section of the country (and neighboring countries, too!). And, because A&P goes to the source for the best of farms, orchards and gardens... and ships direct to its Super Markets... many expenses usual to marketing are eliminated... and the savings are shared with you.

©1944, Atlantic Commission Company



Joe Stilwell's War (continued)



Dropping supplies to troops in forward areas, C-47 dumps part of load without parachutes. Above, plane crewmen push a load of heavy sacks through plane door. Jungle airstrips are marked for identification from the air by parachute-silk numerals.



Parachuted supplies are dropped by same plane in second pass at the airstrip. After dumping load to decrease landing speed, the plane landed. Planes in north Burma are commanded by Colonel Philip Cochran, famed fighter ace (LIFE, Aug. 9, 1948).

The Belle who takes the tolls

HUNDREDS of times in an hour, a car rolls up to the toll-booth on the George Washington Bridge. Matter-of-factly, the driver holds out a coin...then blinks, as a pretty girl leans out to collect the toll, with a smiling "Thank you." It's lovely Marcella Schopp, who has taken over a man's job for the duration, as our country asks every woman to do.

She has to be on her toes every minute...and look it. And so, although she hasn't much time to devote to herself, Marcella Schopp won't let down on her beauty care. She's depending on DuBarry Beauty Preparations to see her through.

In the famous Success School she learned how much more effective these co-related preparations are. They are scientifically compounded... each for a special use. Yet they are formulated in such a way that each one supplements the others, when you use them together...and thus give better results.

The extra effectiveness of co-related DuBarry Beauty Preparations has been proven to more than 120,000 Success School pupils. Every one of these graduates starts towards a better complexion by flaking off the old skin with the DuBarry Special Cleansing Preparation treatment, as explained step by step below.

Du BARRY

BEAUTY PREPARATIONS
by RICHARD HUDNUT

Featured in the Richard Hudnut Salon and DuBarry
Success School, 693 Fifth Avenue, New York 22, N.Y.
...and at better cosmetic counters everywhere

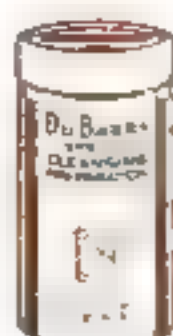


Quick pick-up for drab, tired skin!
Mix DuBarry Special Cleansing Preparation into a paste with water. Apply to face and throat like a mask. When dry, rub off with a dry washcloth. Flaking cuticle and grime are gone—skin is sparkling clean and fresh!

For an intensive beauty campaign,
continue this treatment nightly (following with lubricating cream), until all dull, flaky skin gradually peels off. Now your complexion is ready to get full benefits from all the DuBarry Beauty Preparations.



Spring clean-up for necks, elbows.
Get ready for low necks and short sleeves by giving them this same cleansing with DuBarry Special Cleansing Preparation. Gentle, effective, this meal-like cleanser is a beauty must in the Success School. 1.00



the flowers that bloom in the Spring...



bring
Apple "Honey"
to
Old Golds

Soon the blossoms bring juicy apples . . . and their
nectar brings Apple "Honey" . . . and Apple "Honey"
brings *freshness* to Old Golds!

How? By helping to keep in the natural moisture of Old Gold's
fine tobaccos—to which "something new has been added"
—imported Latakia tobacco for richer flavor!

Try Old Golds . . . and see why they have 3 times
as many friends as they had 3 years ago!



Buy *more* War Bonds than you think you can afford!

LISTEN TO: Sammy Kaye's Band and Guests,
Wednesday Evenings, CBS Network; also Bob Crosby
and his Orchestra, Sunday Evenings, NBC Network.



THE COLUMNS IN BACKGROUND OF "BATHING BEAUTY" SET ARE GUYED TO STEEL GIRDERS WHICH ARE OVER THE ENTIRE SET. ON Dais IN BACKGROUND IS ESTHER WILLIAMS

"BATHING BEAUTY"

Its aquaballet is the first color water pageant to reach the screen

The highlight of *Bathing Beauty*, a new M-G-M musical in Technicolor, is a water pageant (above) in which girls do more than splash their toes. Each of its 46 performers swam two miles daily during the seven weeks of production. Staged by John Murray Anderson and directed by George Sidney, the ballet serves as a frame for the swimming of Esther Williams, Hollywood's prettiest shown on this week's cover.

As a setting for this ballet, the most ambitious of

its kind in the history of the studio, M-G-M built a pool 90 feet square and filled it with almost a million gallons of warm water. A "crow's nest" camera platform for Director George Sidney and three technicians was raised and lowered above the pool. A special crane allowed the camera to move horizontally and vertically at the same time. For the underwater shots the camera was encased in a specially constructed aquachamber which resembled a telephone booth.

"Bathing Beauty"



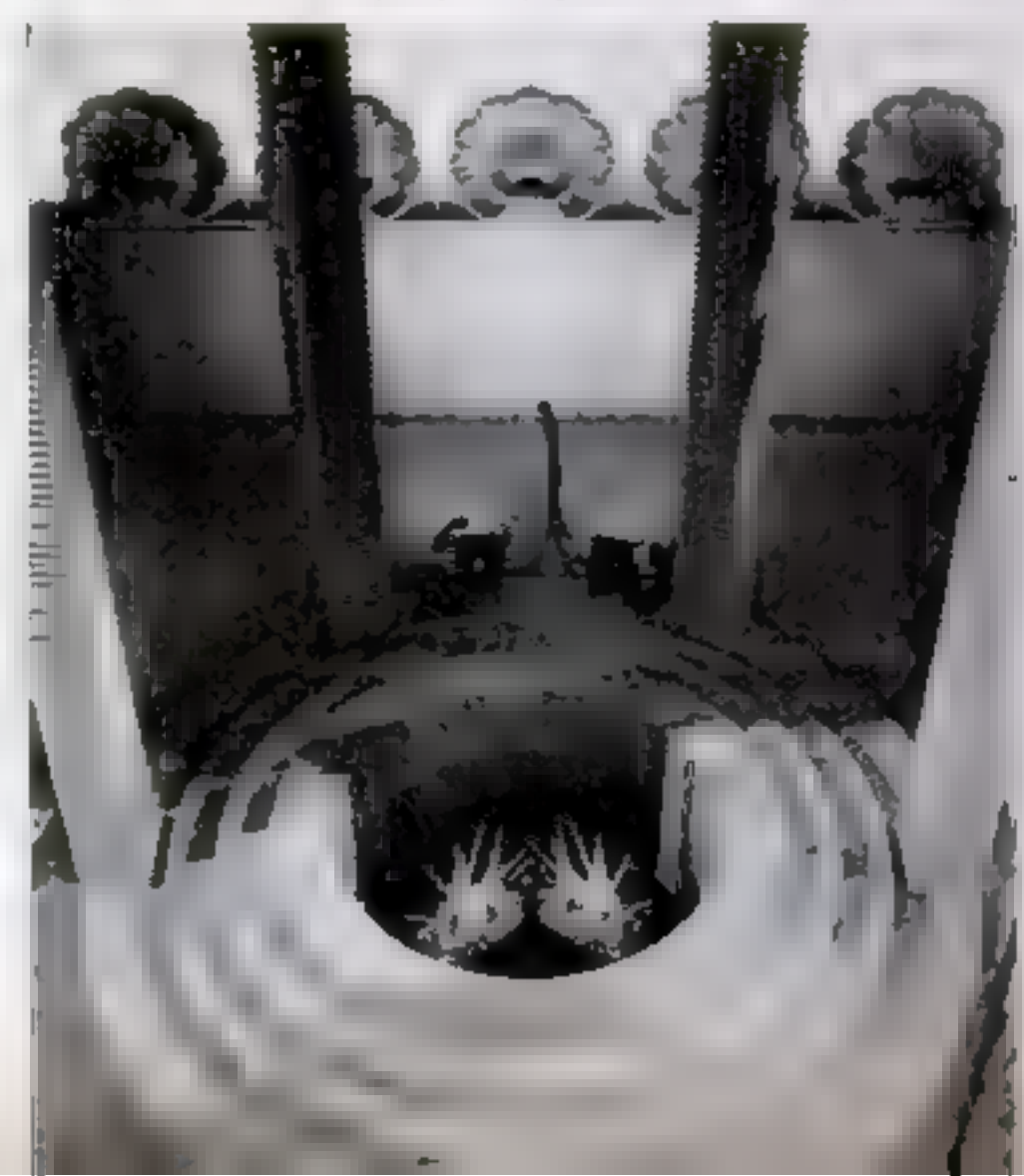
The circle of swimmers looks like this from camera crane's cab. Garlands of flowers, made of hard rubber, float on corks

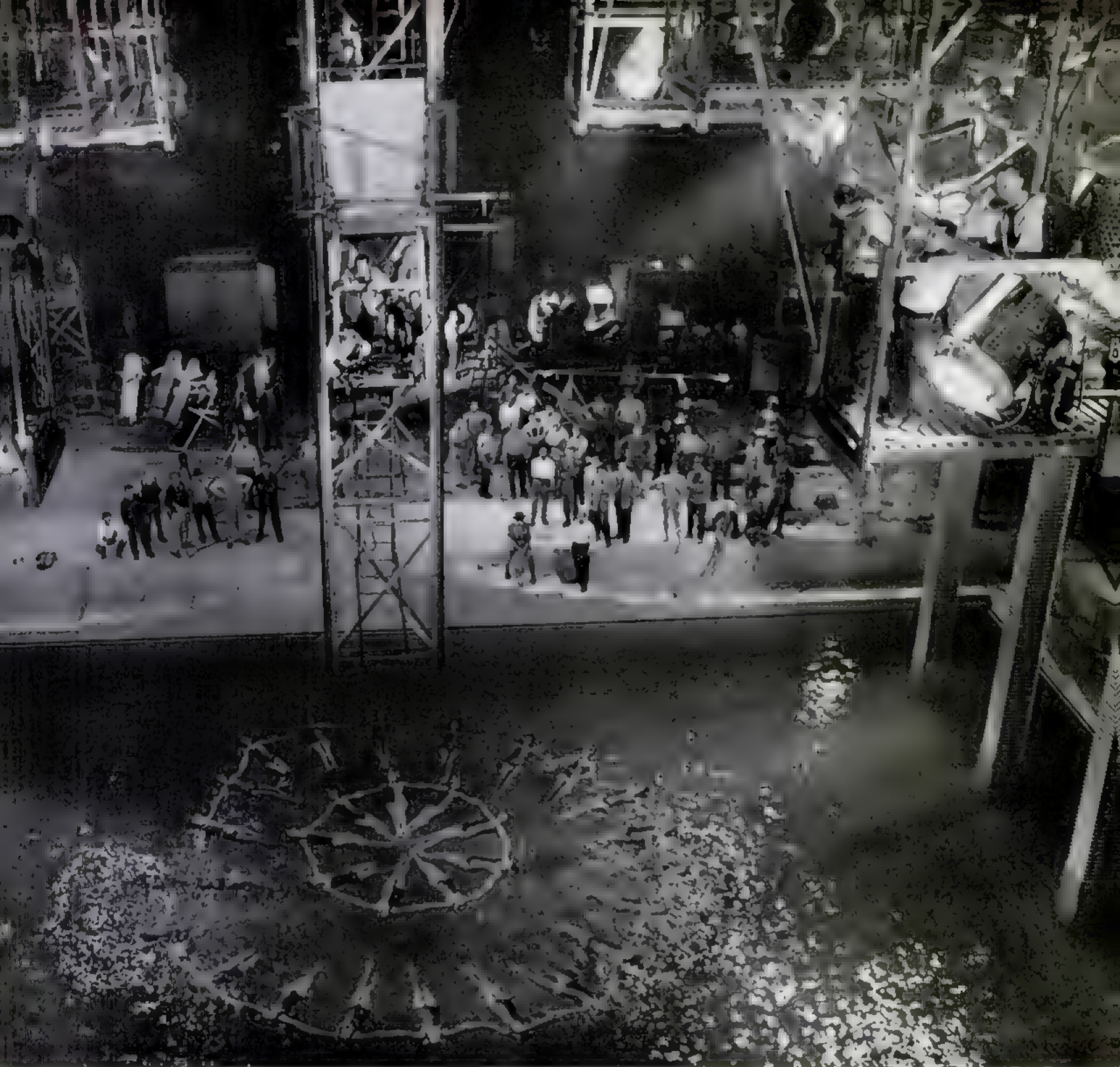
glued underneath the petals. Their pattern is spaced by gas. Below the camera crane in profile moves closer to the pool



Camera crane is in the center of this picture. The crab moves horizontally on tracks mounted on the girls overhead and

THIS SCENE INTRODUCES THE QUEEN OF THE AQUABALLET





vertically on rails which are suspended from trolleys. Lights are mounted on stationary platforms supported by steel cas-

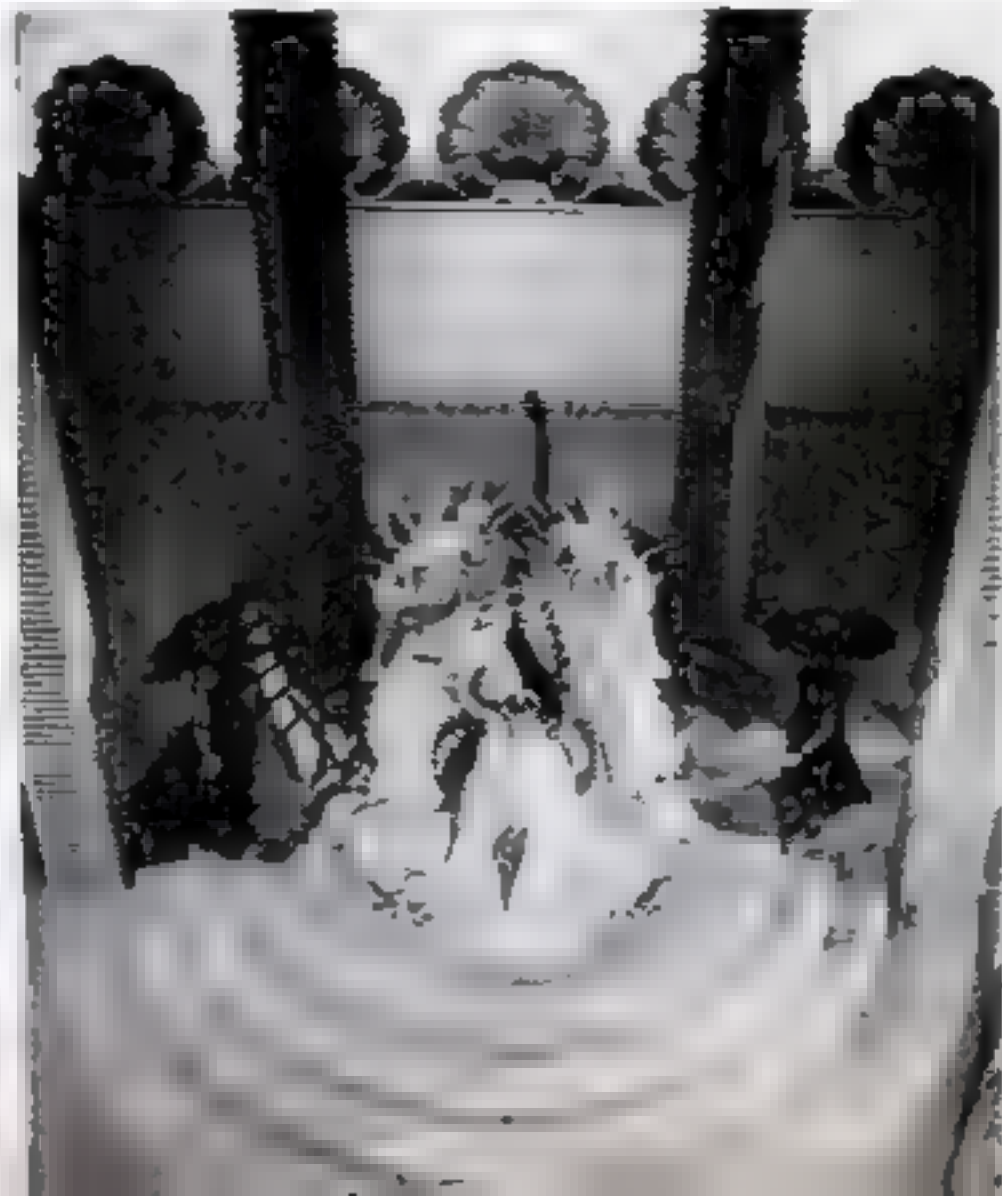
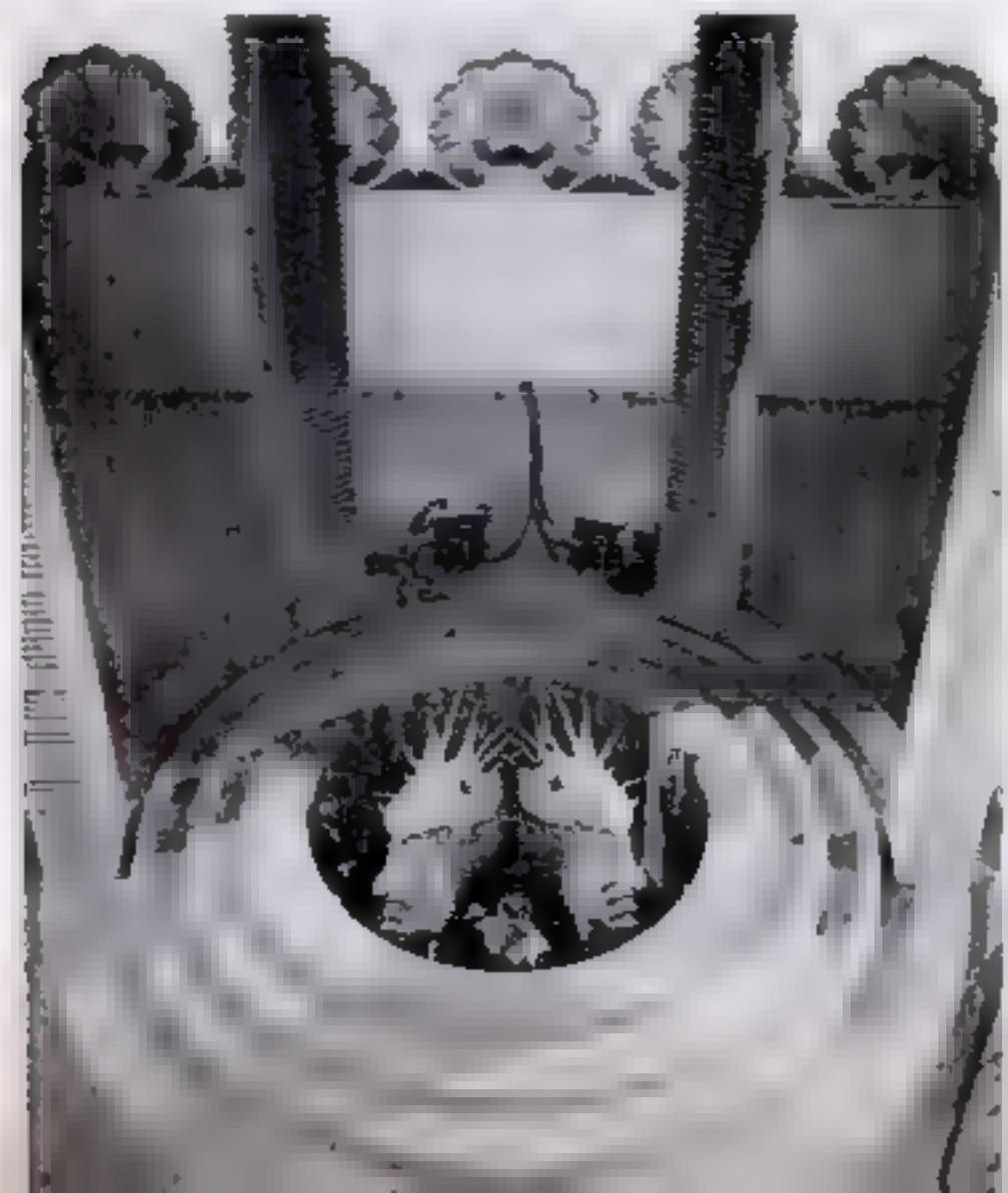
bles from the girders. The echoes on this vast set presented a tremendous sound problem. The communications system is

worthy of Army engineers. All lights and cues are controlled from a big central switchboard which serves as nerve center.

A SET OF HUGE, LUMINOUS SEA HORSES APPEARS FIRST

UP COMES ESTHER WILLIAMS, QUEEN OF WATER BALLET

ESTHER DISPLAYS TIGHT "SHOCKING PINK" SWIM SUIT



CONTINUED ON NEXT PAGE



"You mean now that I've got rid of my '5 o'clock Shadow' we'll be seeing more of each other?"



We'll guarantee that she'll see more of you if you avoid "5 o'clock Shadow". A clean, cool shave with a genuine Gem Blade has brought to light many a handsome chin.

For Gem's the super-keen blade with the deep wedge-edge. It shaves closer—never pulls, scrapes or nicks. It keeps your face neater longer. There's 60 years of know-how in each and every Gem Blade!

AVOID '5 O'CLOCK SHADOW' WITH



GEM
RAZORS and BLADES

© 1954 American Safety Razor Corp.



"Bathing Beauty" (continued)

Roofs of dressing rooms were removed to enable LIFE Photographer Ralph Crane to make this picture. The dressing rooms and stage of *Bathing Beauty* are a mass of

Between "lakes," swimmers Pat Dean and Betty Lou Harrison pause for drink of water before re-entering the pool. Swimmers were subject to cramps and overexertion.





insulated electrical cables carrying heavy charges. Note pass for washing feet (corner, above). Jack Dawson gets a waterproof make-up for swimmers in this picture.

Tall showgirls like Mildred Racy, Helen O'Hara and Dorothy Ford (below) are featured in *Bathing Beauty*. Their fragile netting costumes were not worn in the water.



CONTINUED ON NEXT PAGE

"Gotta rush home to change my shirt for Bill's party."



"Why don't you wear Van Heusen Shirts? My collar's still neat and fresh."



Van Heusen Shirts

Give your neck a break!



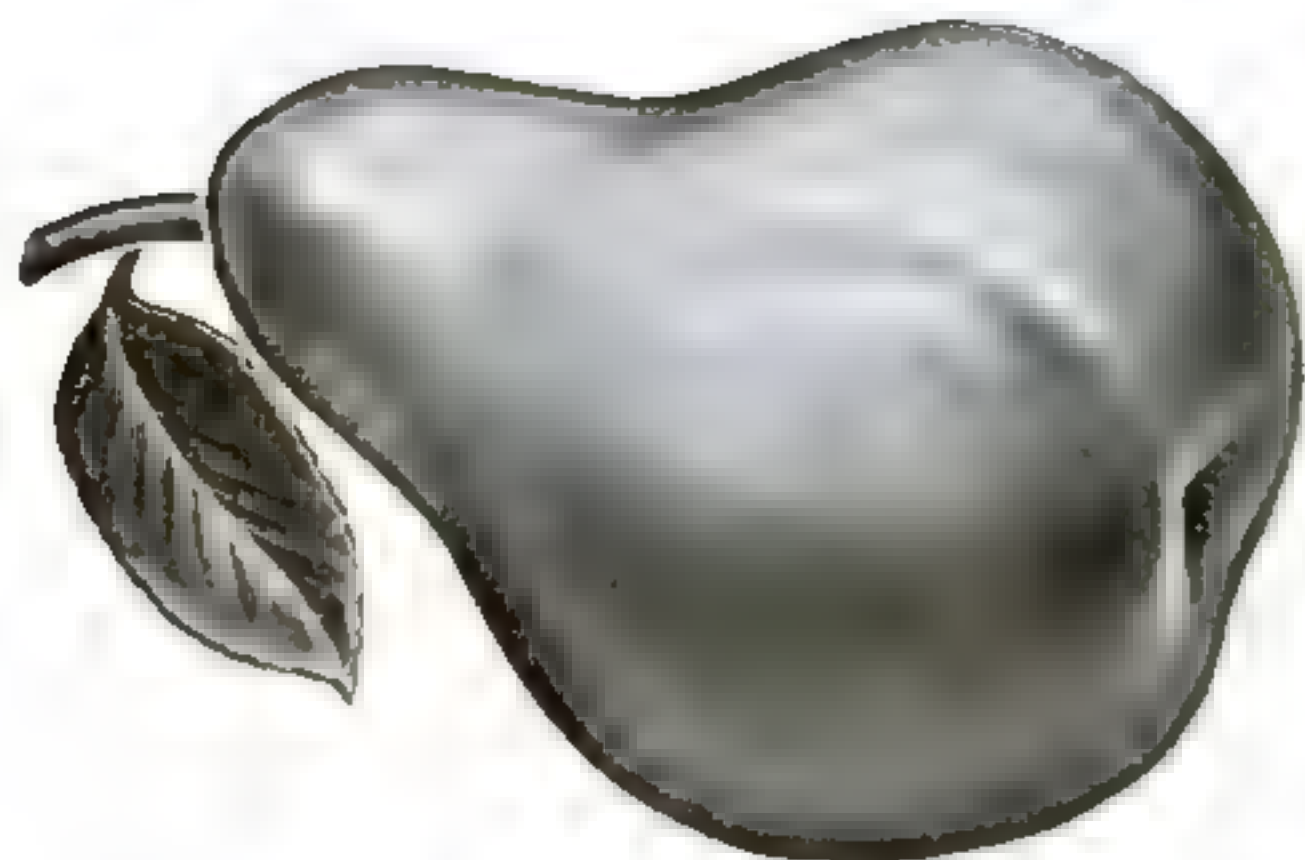
See new patterns and colors too, \$2.25 and up

This collar-attached shirt *stays* neat without starch — looks as fresh at midnight as it was at 8 a.m. It's the Van Heusen white shirt — with the world's only shirt collar woven in *one piece*. Can't wilt, can't wrinkle. Can't even be ironed wrong because the foldline's woven in.

Van Heusen Shirts are Sanforized and laundry-tested. Men who know call them the "World's Smartest Shirts!" Phillips-Jones Corp., N. Y.

0 SHIRTS • TIES • PAJAMAS • COLLARS • SPORTSWEAR

Slow sun-ripening makes a
PERFECT PEAR



and slow flavor-aging makes
mellow *Clicquot Club* (and you)
A PERFECT PAIR!



When you pick a pear too soon, it's hard — on your taste, teeth and temper. But let it ripen s-l-o-w-l-y until it's warm, tender and golden, bursting with juice . . . Ah-h-h!

When you pick a ginger ale, look for the same seasoned goodness in flavor-aged *Clicquot Club*. It's the ginger ale in which the finest Jamaica ginger, and other ingredients, are matched and blended expertly, then mellowed for months. Full quart size is handiest — other sizes available too.

Clicquot Club
GINGER ALE

OVER FIFTY YEARS A FAVORITE

There's a long lease on life with *Clicquot Club Sparkling Water* that makes it always the mixer for the super-drink . . . and the reason is—Bonded Carbonation!

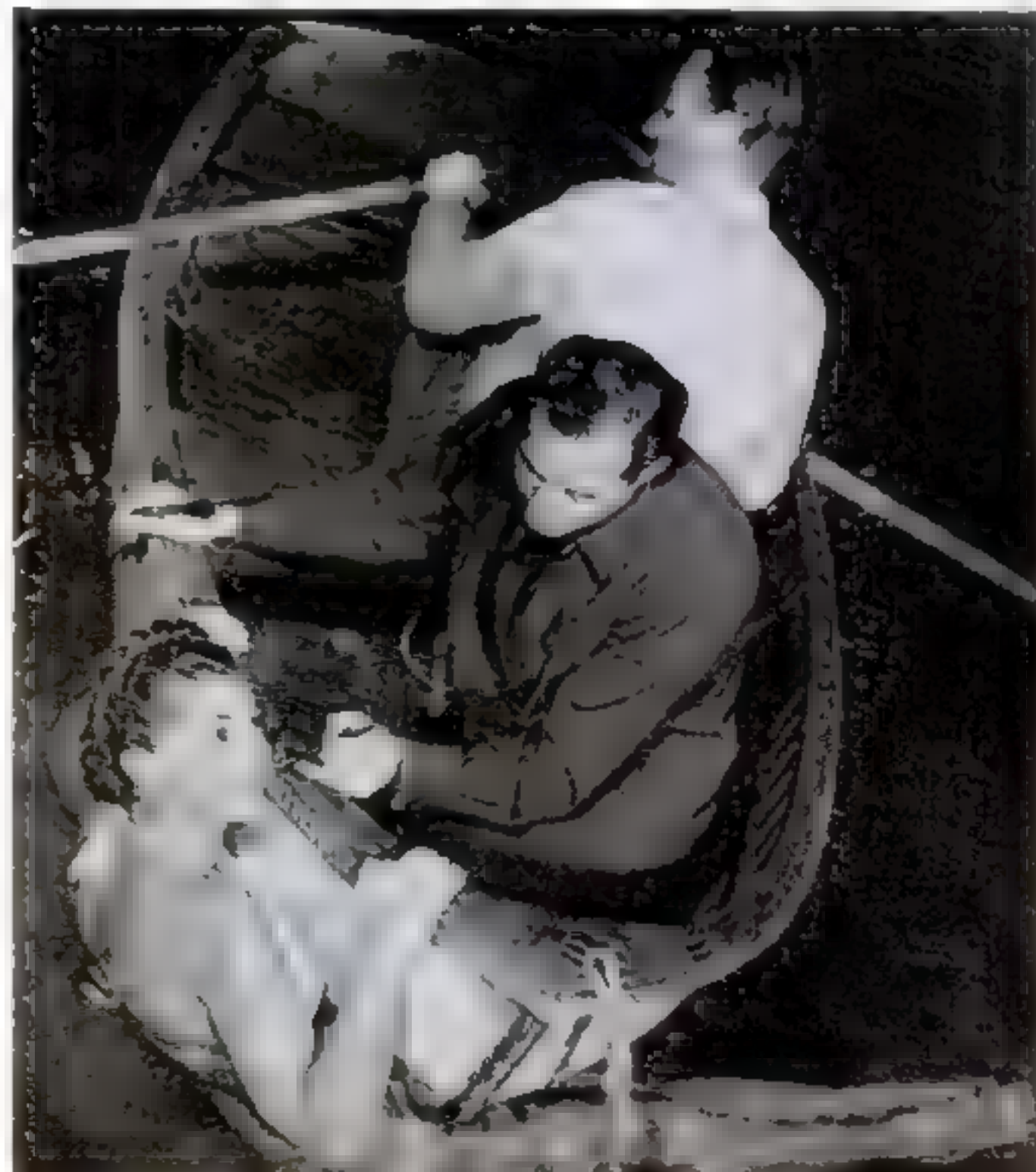
"Bathing Beauty" (continued)



Esther Williams, who is shown here in her dressing room, held the 100-meter free-style championship for 1939. She is 5 ft. 7 in. tall and weighs 125 lb. She starred in the aquacade at the San Francisco 1939 World's Fair before entering the movies.



Hot coffee is served! Esther Williams between pool performances. Below: make-up man in rowboat freshens her make-up. Unlike most Hollywood actresses, she uses cosmetics sparingly, owes glowing good looks largely to her fine physical condition.



Men Who Plan beyond Tomorrow Like CANADIAN Whisky at its Glorious Best!



TOMORROW'S AUTOMARKET!

Meal planning and buying will be a cheer instead of a chore, when groceries on wheels rush fresh foods to the housewife's door! Spotless, glass-roofed, giant trailers will make regular stops on each block—one side of the trailer opens out . . . a platform with steps is set up . . . the grocery and meat market is ready for its customers!

★ ★ ★


SEAGRAM'S was planning for your pleasure six long years ago. That was the year when Germany refused to participate in the New York World's Fair . . . when outdoor meetings were actually televised . . . when "You Can't Take It With You" was voted the best movie. The choice Canadian whiskies that you enjoy in Seagram's V. O. CANADIAN today were stored away then—to grow mellow and finer. Six years later, those same whiskies are ready for you in V. O.—Canadian Whisky at its glorious best, for the world's lightest highball!



Seagram's V.O. CANADIAN

CANADIAN WHISKY • A BLEND OF RARE SELECTED WHISKIES

Six Years Old—86.8 Proof. Seagram-Distillers Corporation, New York



How Johnny gets his ZEROS

FIGHTER "WEAVE" TACTIC—Sixth in a series of advertisements, dedicated to the skill and courage of American aviators, showing Army and Navy aerial combat tactics.

JOHNNY IS A NAVY FIGHTER PILOT—a specialist. He flies a special plane in a special way.

Johnny's job is fighting—nothing else. He fights off enemy planes that attack our dive and torpedo bombers. He is the "aerial umbrella" above his carrier and other fleet units. He breaks up and destroys enemy bombing formations over water or land. He lends a hand in ground strafing enemy troops, artillery, and anti-aircraft batteries, he smashes enemy landing attempts and their surface escort vessels.

* * *

Of course, the reason why Johnny can perform as he does, whenever he and his mates meet Jap planes, is that Johnny is an expert in fighting tactics, gunnery, radio, navigation, engines and flying by instruments. And he can handle his Navy Fighter, such as the dread Corsair, with second nature ease

... as shown above. In the Fighter Weave Tactic, two American Corsairs, descending from a cloud cover above, "box in" a Jap Zero. Closing like the jaws of a vise, they send it earthward in a murderous cross fire.

When the war is finally won and Victory is ours, Johnny and his fighters will deserve much of the credit. His courage and skill, his brain and plane

are unequalled by the best the enemy can put in the air!

* * *

Pioneer in the Age of Flight, Shell Research made possible the first commercial production of 100-octane aviation fuel and supplied it to American Military Aviation... giving our fighting aircraft new speed and range, and a great tactical advantage.

Three additional Shell "firsts in fuel" vastly increased both the power and production of aviation fuel.

Today, more Shell 100-octane aviation fuel is supplied to aircraft engine manufacturers, for critical test and run-in purposes, than any other brand.

And now, each day, Shell produces more than enough to fuel a bombing mission of 2,400 planes from England over Germany.





A NEW YORK DEALER IN SECONDHAND PHONOGRAPH RECORDS AND OLD CROCKERY SELLS WPA ART WHICH HE GOT FROM A JUNK DEALER WHO GOT IT FROM U.S. GOVERNMENT

END OF WPA ART

Canvases which cost government
\$35,000,000 are sold for junk

The hodgepodge of paintings shown on this page is WPA art. It is a sample of work for which the U. S. government spent about \$35,000,000 from 1935 to 1942, chiefly to keep artists from starving during the depression. Some of the pictures done by these painters were hung in public buildings. Others were just stored in warehouses. The paintings on these pages were piled in a government warehouse in Flushing.

Recently, after the government had liquidated its

WPA art project, these pictures were sold for 4¢ a board to a Long Island junk dealer who thought perhaps the canvas itself might be worth something. Junk dealer in turn sold them to Henry C. Roberts (*above left*) who runs a secondhand pen and brace shop on New York's lower West Side. In no time at all the Roberts shop was swamped with art lovers, art dealers and the artists who had painted the pictures. They eagerly bought up the pictures at give away prices.

Even Sunday mornings... when time doesn't count... Nescafé does. A glorious cup of coffee... made right at the table... no fuss, no fuss, no work.

A teaspoonful  in a cup 
Add hot water  it's ready 



A quick cup of FULL FLAVORED COFFEE —that's Nescafé

FULL FLAVORED, because in Nescafé all the aroma and flavor of freshly roasted coffee are "sealed in" by added carbohydrates, a distinctive process developed by Nestlé's. In Nescafé, all the fragrance, goodness and stimulation of fine coffee are preserved for you, roaster fresh, until released in your cup.

And Nescafé is so easy to prepare... a coffee extract, powdered for your convenience, it saves so much time and work. There's no coffee maker to get ready or to clean, no grounds to dispose of. Each cup is made to individual taste, always delicious, always the same.

Nescafé is economical, too, especially so as you make only the amount you want... you get all the advantages of Nescafé for about 1¢ per cup.



THE ARMED FORCES
CONTINUE TO TAKE
NEARLY ALL
THE NESCAFÉ WE
MANUFACTURE.
Small quantities are
available for civilians
... and grocers have
Nescafé occasionally.

NESCAFÉ (PRONOUNCED NES-CAFAY) IS A
NESTLÉ PRODUCT, COMPOSED OF EQUAL
PARTS OF SKILLFULLY BREWED SOLUBLE
COFFEE AND ADDED CARBOHYDRATES
(DEXTRINS, MALTULOSE AND DEXTROSE)
ADDED SOLELY TO PROTECT THE FLAVOR.

AWARDED SUNSHINE NESCAFÉ PLANT

NESTLÉ'S MILK PRODUCTS, INC. • NEW YORK, U. S. A

WPA Art (continued)

SECONDHAND WPA ART GOES FOR \$3 UP

When Mr. Roberts bought the WPA pictures from a junk dealer he did not know exactly what he was getting, for they were all rolled up in bundles. Below are some of pictures that he got. Big ones he priced at \$25. Others he sold for \$3 and \$5 apiece. Best bargain was a mural-size canvas by Anton Refregier who three years ago won a \$26,000 mural competition and whose pictures hang in Metropolitan, Whitney, and other U. S. museums.



Woodcutter by Marxist Refregier sold for \$25 because it is big.



New York factory buildings by Alice Neel is still for sale at \$5.



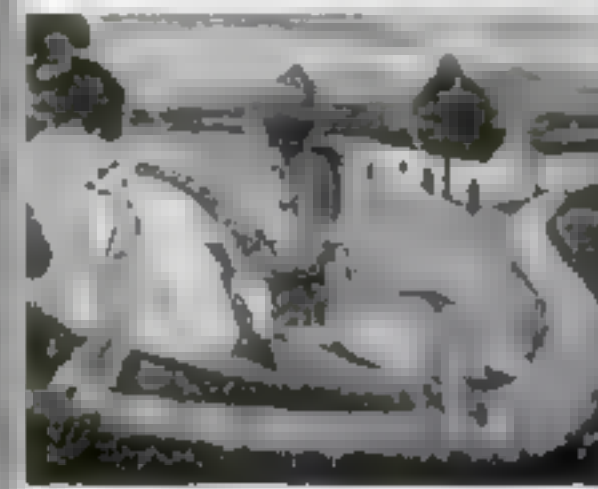
Negro women by P. Goodrich, low priced because it is small, \$3.



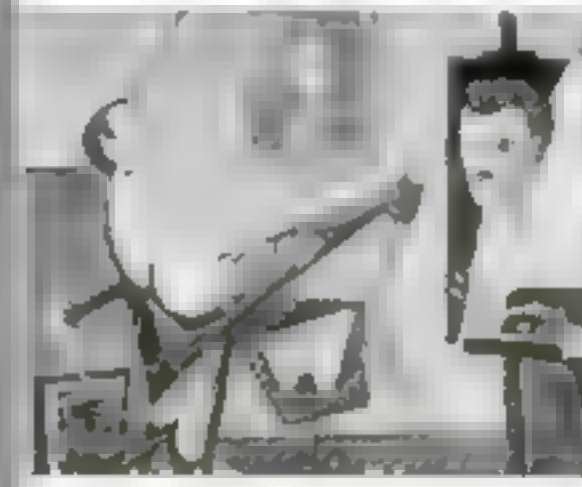
Woman doing wash in a tenement kitchen was sold first day for \$5.



Winter scene was WPA job done by Fournier, is up for sale at \$5.



Negro soldier in a trench, done by WPA worker of P. Goodrich.



Self portrait a la Picasso, was by New York Cartoonist Phil Bard.



Beach scene by Surrealist Jovan of Rocco, still for sale for \$5.



Sawing wood for winter, by George Nesm of New York, sold for \$4.



The Susquehanna, another old by Palmer Hayden, went for \$5.

"tell them that in time of war, PATRIOTISM IS NOT ENOUGH!"

Edith Cavell 1915



It is the night of October 11, 1915...in the prison of St. Gilles, Brussels.

Nurse Edith Cavell awaits her execution by the Germans at dawn.

The British chaplain beside her asks, "Have you a last word for the women of your country?"

"Yes," her voice speaks strongly. "Tell them that in time of war, Patriotism is not enough!"

★ ★ ★

Today, American women understand the terrible truth of this message. Patriotism, love of country, the will to win, is *not* enough. So millions have willingly put aside their everyday lives, and are hard at work with their own two hands to speed the end of this holocaust.

But many more women are needed!

There are thousands of jobs open. Civilian jobs in transportation, communications, education, nursing. War jobs in localities where factories are producing military equipment. And for the women who want to stand shoulder to shoulder with their men in this war, there are the Waves, Wacs, Spars and Marines.

Remember: The more women at war, the sooner we'll win!

Look in the want ads for the kinds of jobs open in your community. Go to your local U. S. Employment Service office for advice—or to the nearest Army or Navy recruiting office, or Office of Naval Officer Procurement.

War work for women is so important—and covers such a wide field, that we felt a booklet giving authoritative information would be a great help. So we gathered facts from every possible source and summed them up in the little pamphlet "*Where am I needed most?*" It is carefully planned to help you find the war job you are best suited for. Send coupon today.

★ ★ ★

Whatever war work you do, may we ask one thing more. Rayon is important in military and economic warfare. So that it may continue to serve you at home as well we ask you to buy carefully, to look for known quality labels and to conserve according to directions.

*fashioned in
TUBIZE certifies
quality RAYON*

Please coupon on post card
TUBIZE RAYON CORPORATION, 2 Park Avenue, New York 16, N. Y.
Please send me booklet "*Where Am I Needed Most?*"

NAME
ADDRESS

VOLCANO

PARICUTIN IS SAMPLE OF EARTH'S INTERIOR HELL

Here spouting dust and flame is Paricutin, world's youngest volcano. Where it stands today, on the high plains of Mexico 200 miles west of Mexico City, there was a flat cornfield only 14 months ago. Paricutin, in its stormy infancy, has piled up a cone of rubble and giant boulders 1,200 ft. high. Its dust column sifting earthward has buried a village and blighted and depopulated several hundred square miles of once productive farmland.

Paricutin is of more than local interest, however, because it is the first volcano to come under scientific observation almost from the moment of its birth. Volcanoes are our single direct contact with the inside of the earth. Up through the fragile outer crust of the earth which insulates the life on the surface from the often hell of the interior, volcanoes bring awful samples of the mighty forces of nature which have reared up our mountains and designed our continents.

PARICUTIN'S DUST COLUMN MOUNTS 20,000 FEET INTO THE SKY. EASTWARD ON PREVAILING WINDS THE DUST PARTICLES TRAVEL AS FAR AS MEXICO CITY, 200 MILES AWAY





Crater pyrotechnics are most impressive at sunset and against night sky. Glowing tracer streaks are trajectories of bombs, incandescent rocks a foot in diameter which travel upward about 3,000 feet before they fall. Over-all glow comes from incandescent dust particles.

Liquid lava, in flow about six feet deep rolls forward from right in picture below. One of few liquid flows observed in Parícutin eruption, it burst out of side of cone near base. Red-hot rocks over which it advances here formed a ridge which dammed the flow before it broke loose.





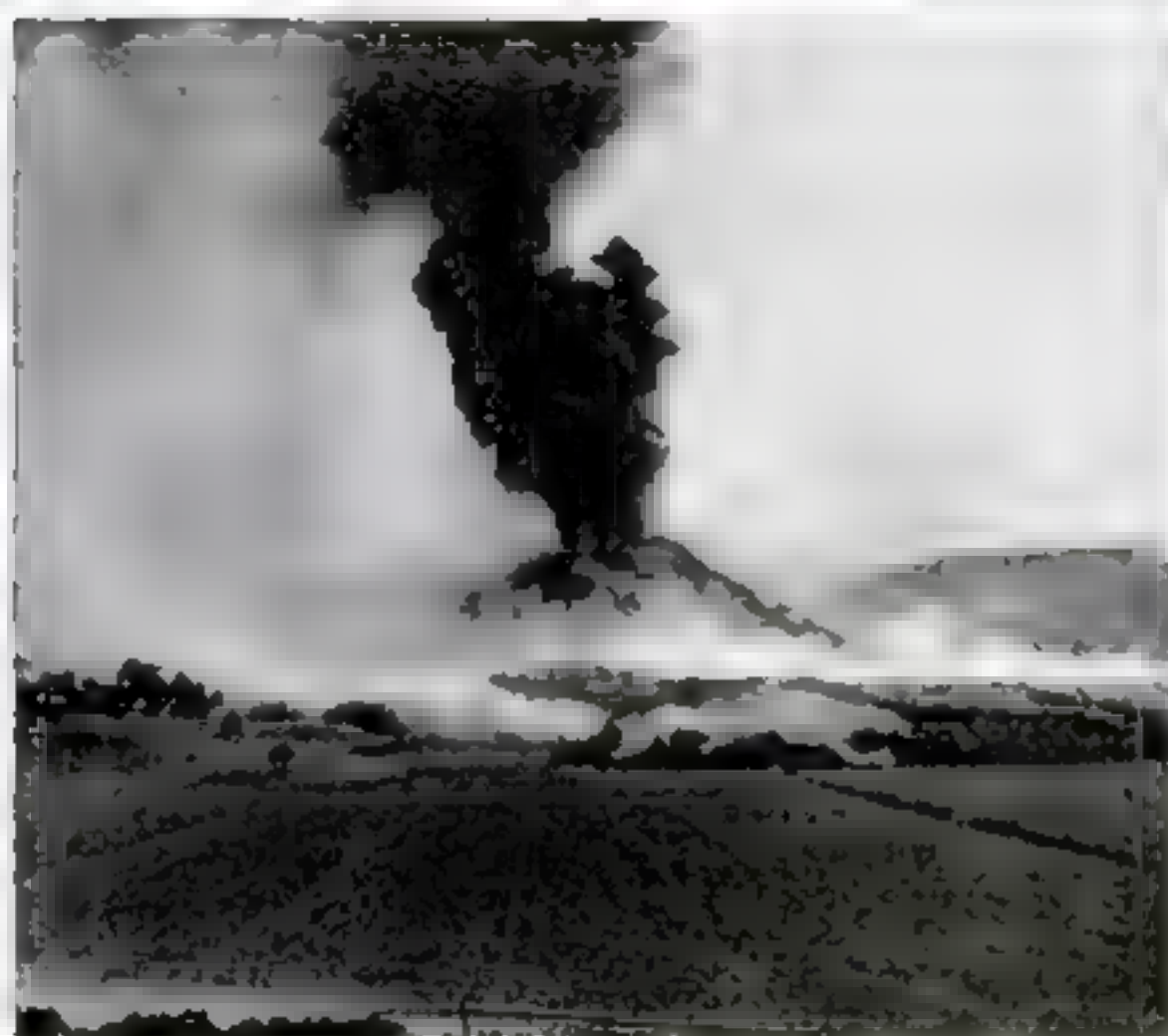
Parasitic cone, called Zapicho (Indian for "little boy"), began to grow at base of Parícutin cone last October, erupted violently for several weeks as shown here, and then subsided early

in January. Its early days were a small-scale re-enactment of birth of Parícutin. Zapicho, however, is not an independent volcano. It is outlet for branch of main Parícutin conduit.

BIOGRAPHY OF THE WORLD'S YOUNGEST VOLCANO



On third day of existence, Feb. 23, 1943, Parícutin had already reached height of 120 feet. Its birth was seen by native farmer whose cornfield it destroyed.



On fifth day a flow of liquid lava, erupting at the base of cone, had engulfed trees at edge of field (see left). Lava cooled quickly into porous rocks. Flow continued for three weeks, burying a square mile of land.



At six weeks Parícutin was 600 feet high and had settled down to spouting rocks and dust in a steady stream from cone. Dust column is 20,000 feet high.



At four months Parícutin reverted to early violence, spilling hot lava for the first time from its crater and opening a new vent on side of cone. This eruption carved in side of cone shown in the picture above.



At five months Parícutin again spilled lava from crater. June vent had meanwhile become inactive, is buried by new flow. Flow can be distinguished (above) running down cone and spreading at its base.



At eight months the birth of Zapicho, a parasite crater at base, gave a small-scale re-enactment of birth of Parícutin. Incandescent, semiliquid "bombs" are here

spouting about 400 feet upward from two small craters. These two craters later merged to build up Zapicho's fiery cone as it is shown in color on page opposite.

VOLCANO CONTINUED



A century plant is weighted down by its burden of fine volcanic ash particles which sift down from Parícutin's dust column. The ash particles range in size from grit down to the finest tale.

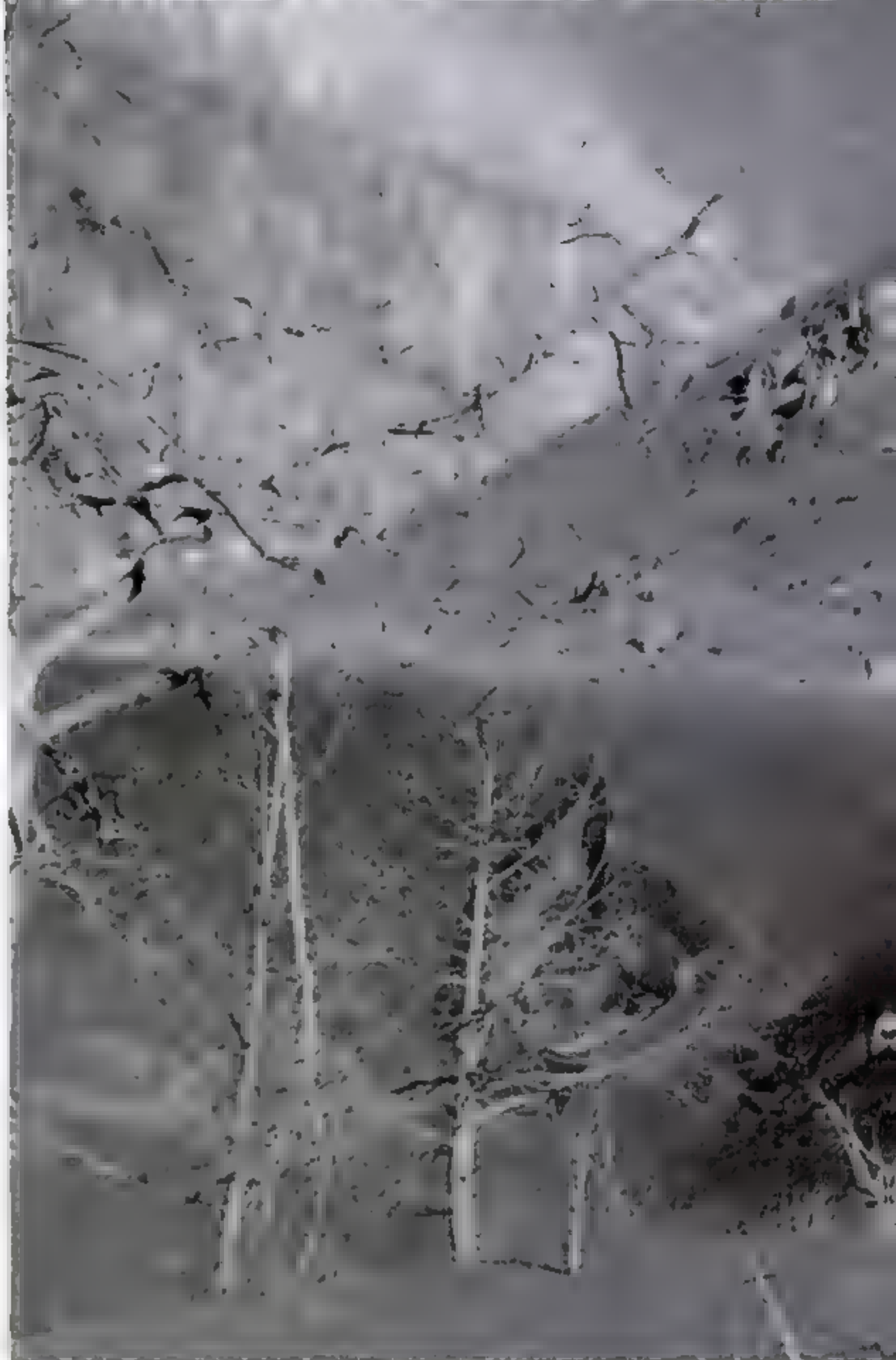


Dust fall shrouds countryside downwind from base of the cone. Person in picture is shielding head and face from stinging rain of small cinders, which has stripped the trees in background.

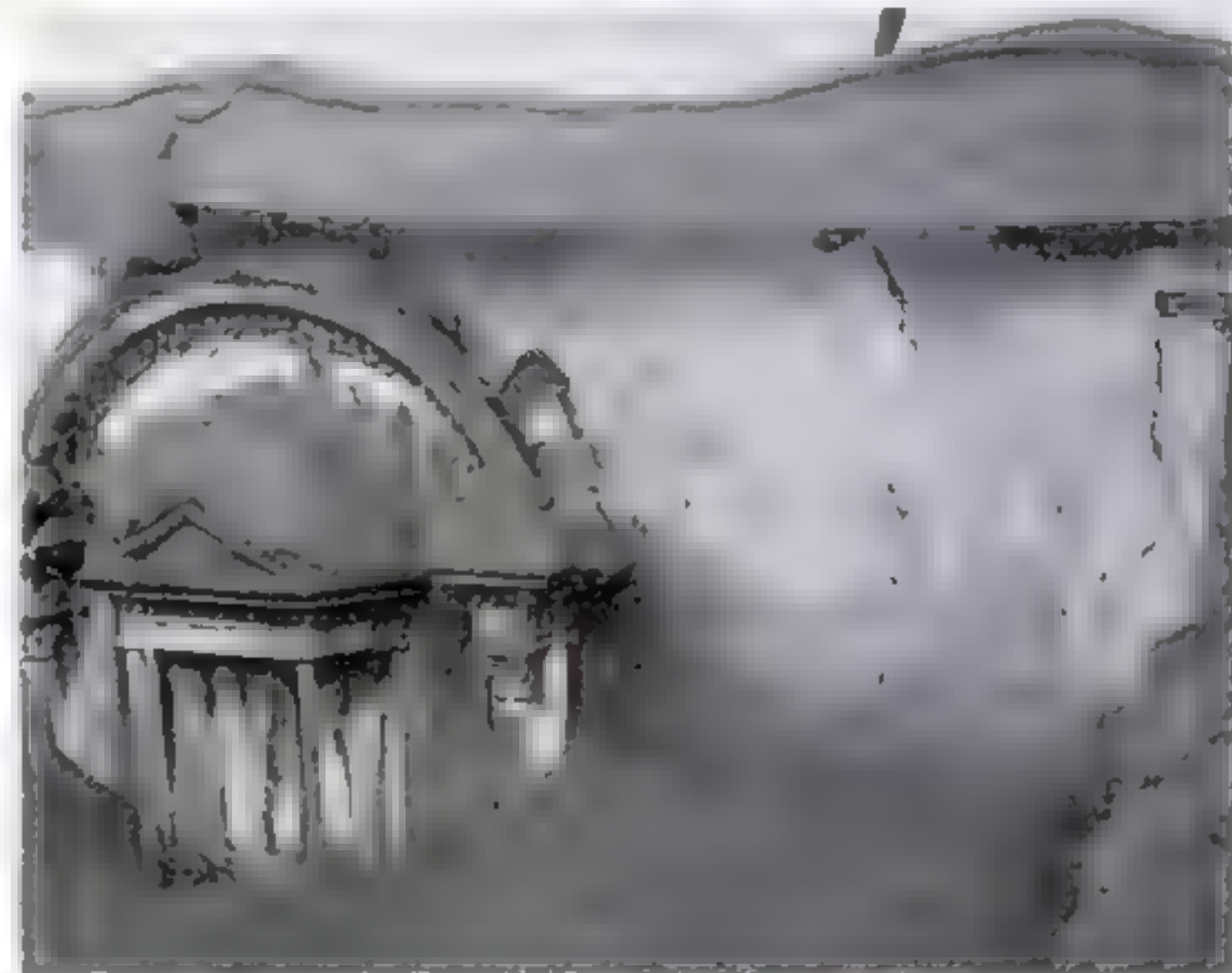


Basketball backstop sticks up above nine-foot layer of dust in Parícutin village, three miles from base of cone. The village has been evacuated. Diehard natives stay on for tourist trade.

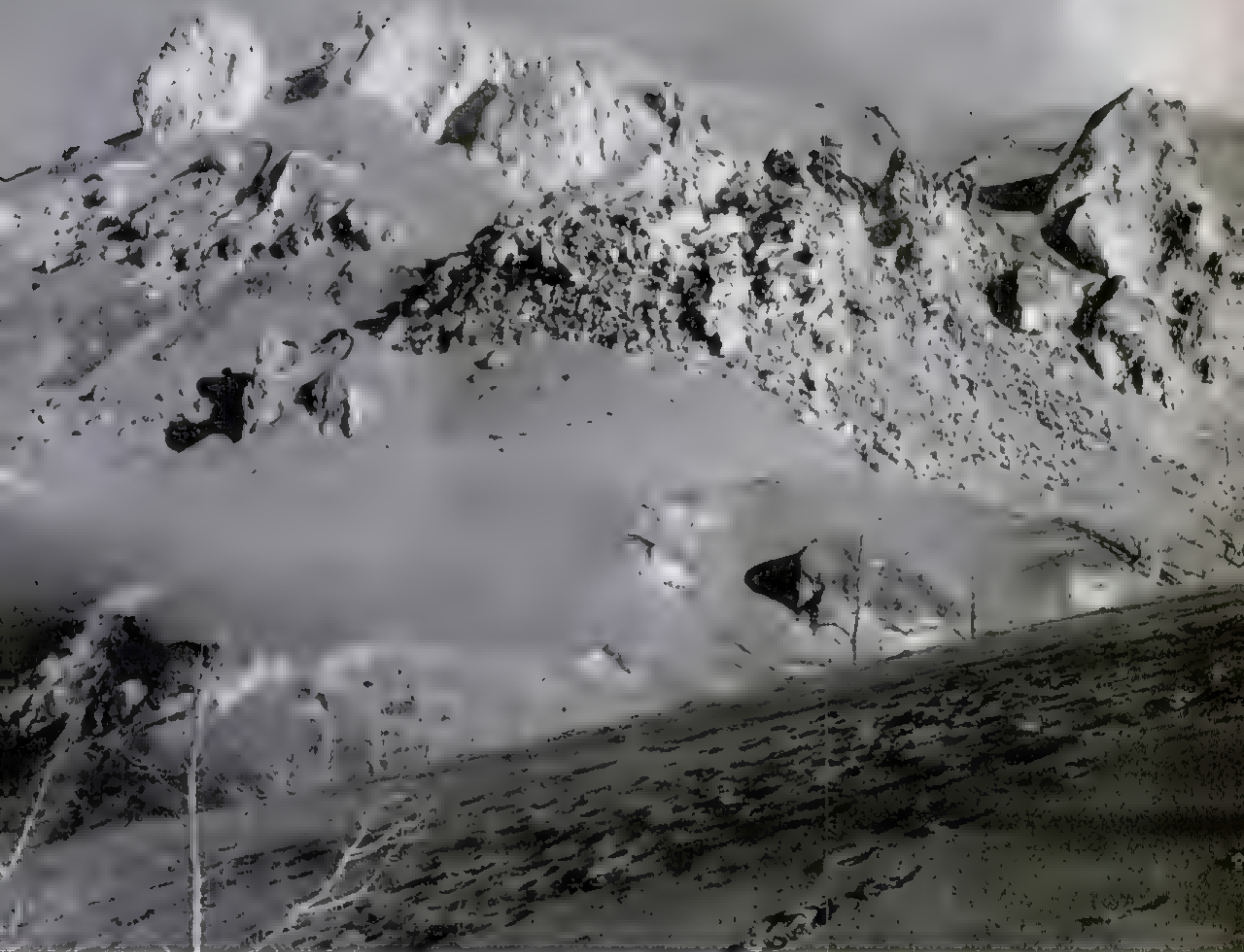
PARICUTIN'S LOST WORLD



Volcanic rubble is here heaped up at end of a lava flow. Parícutin yielded only a few flows of actual liquid lava. Lava in most of flows cooled to a plastic, viscous consistency as it



Parícutin church, its roof long since caved in, here appears half-filled with dust, in a picture taken in January. The photograph shows interior of the church, with side altar at left.



approached surface and was pushed out by pressure of still-liquid rock behind it. Surface of flows solidified and cracked into rubble. This flow, overlaid by a layer of dust, has cooled

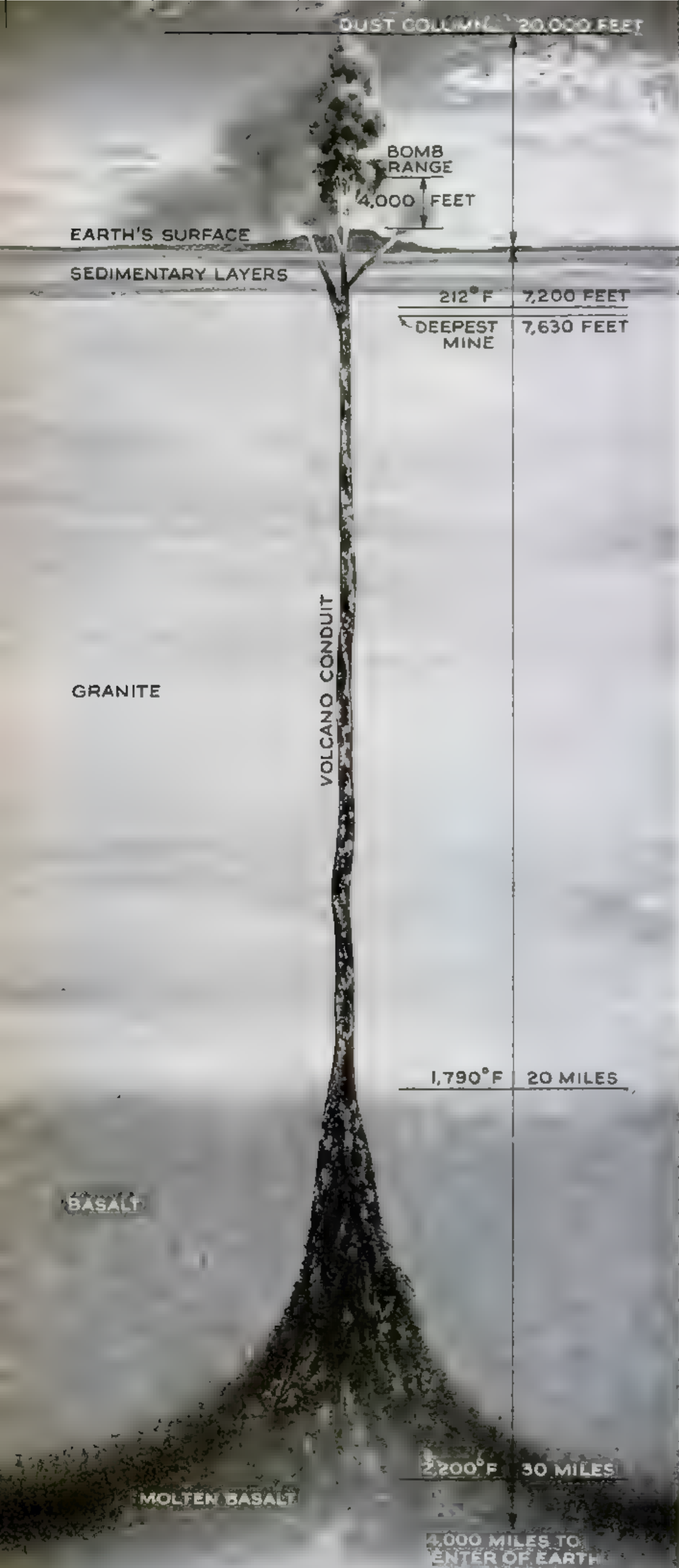
down. Evidence of persisting heat within are the steaming vents at left of center. These vents, called fumaroles, are surrounded with bright crystals formed by the escaping chloride gases.



Paricutin cemetery, sheltered by hill beyond, has shallow dust cover. Volcanic dust is rich in plant growing minerals but must go through decomposition before it enriches farmland.



Half-buried Paricutin farmhouse still bears up under its burden of dust. The land within 10-mile range of Paricutin will be blighted for several generations before plants will grow again.



VOLCANO CONTINUED

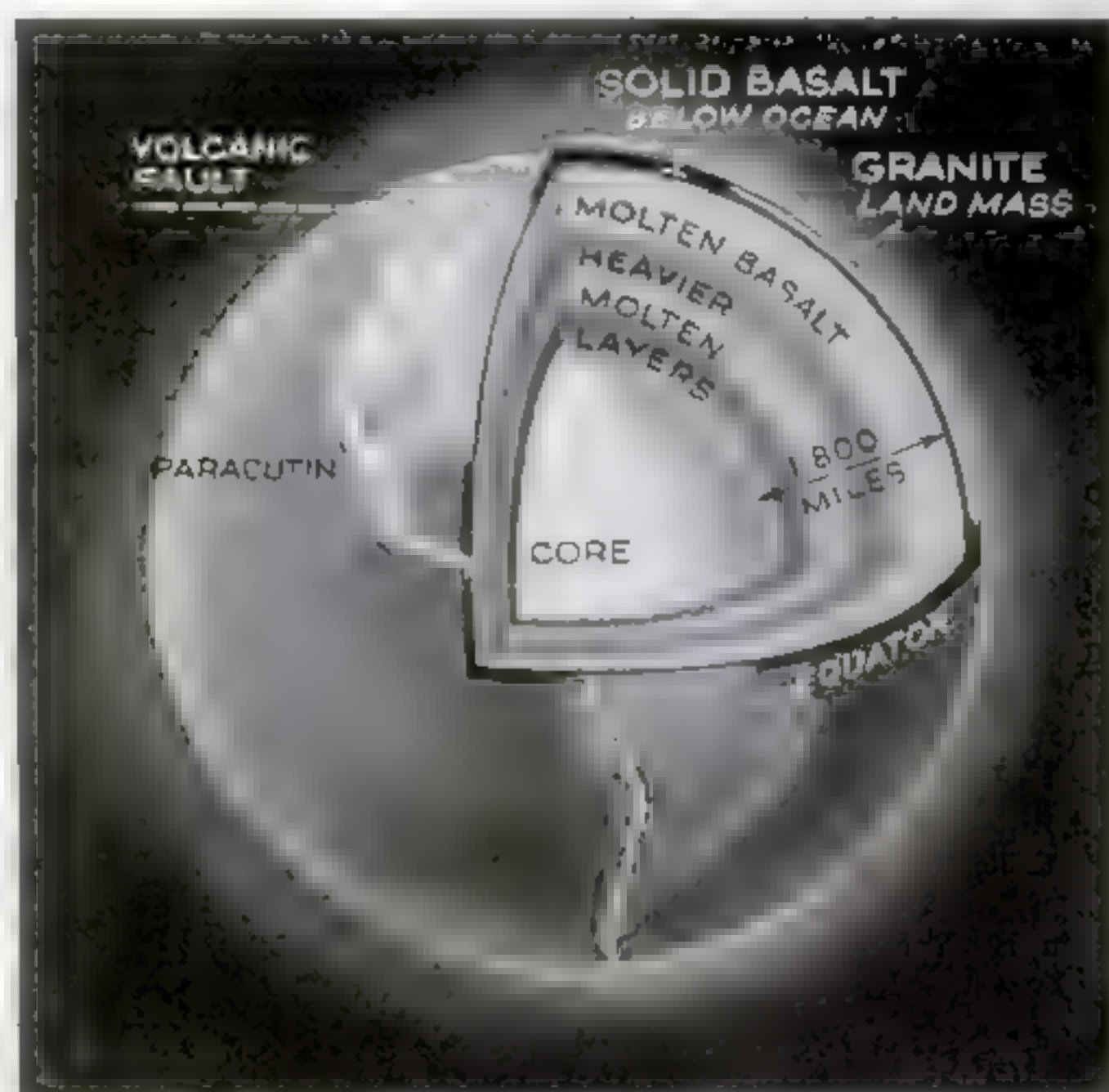
EARTH'S UNEASY CRUST FLOATS ON LIQUID ROCK

Paricutin is one of 600 volcanoes currently active on the surface of the earth. It belongs to the lesser class of cinder cones, built up of dust and solidified rubble. These cones are fast-growing and short-lived. Geologists expect that Paricutin will cool down during the next year into extinction like the thousands of other cinder cones on the Mexican high plains.

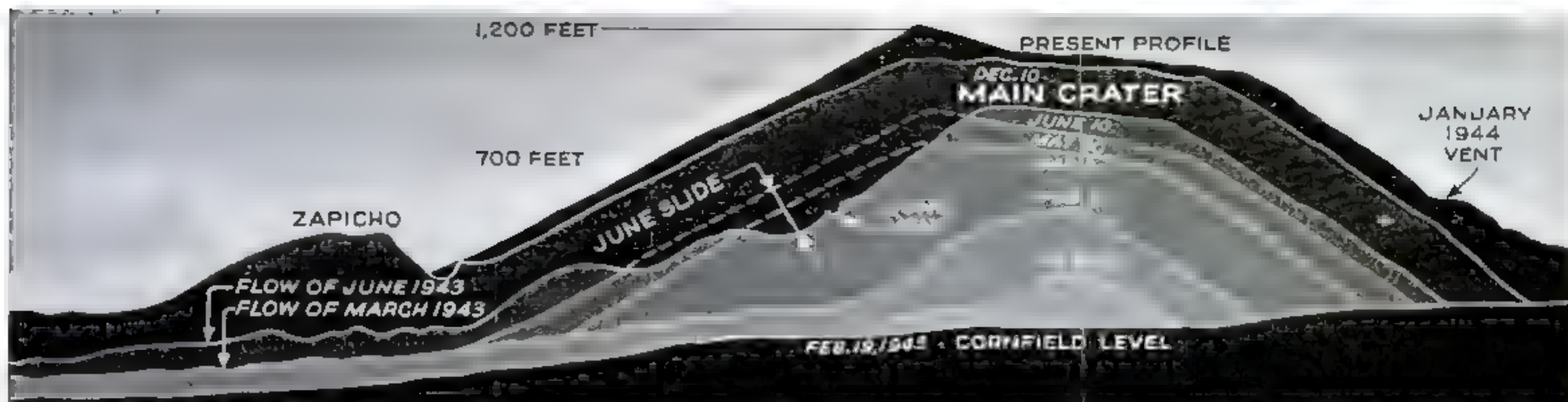
Chart at left shows Paricutin from top of dust column to bottom of its conduit in true vertical scale. Underground detail is schematic since interior of each is major blind spot in science. Nevertheless, the depth at which volcanoes originate is well-established through a simple calculation from observed facts. By deep well drilling it has been discovered that the temperature of the earth's crust mounts at a steady rate of 16° F. per 1,000 feet of descent. On the average, it reaches the boiling point of water at 7,200 feet. At about 30 miles it reaches 2,200° F., the temperature at which basalt rock melts. As volcanoes erupt liquid rock, i.e., lava, at this temperature, they must originate at a depth of 30 miles or more and thus in turn is accepted as the approximate thickness of the earth's solid crust. Pressure of solid crust is the force that squirts molten basalt up through conduit (see left).

For man, who has never drilled more than three miles down, a crust 30 miles thick is reassuringly solid. The crust, however, is thinner than the skin of an apple on the same scale. The once-molten earth has a solid crust only as the result of 2,000,000,000 years of cooling. This apparently stable crust floats in ceaseless dynamic motion on the molten mass which composes the earth's interior. Merely in response to the tidal pull of the moon the ground beneath our feet ripples up and down a full six inches twice a day. Cooling and shrinking of the earth has wrinkled and thickened and cracked the crust to form mountain ranges and caused subterranean cracks and joints. Slips and slides in these cracks and joints result in earthquakes. They also make weak spots in the earth's crust which are the regions of volcanic eruption.

Major mountain ranges and fault zones parallel the continental shorelines. Here the underlying basalt bed, on which the lighter granite of the land masses rests, is thinnest and weakest. Most active and unstable fault zone is the "ring of fire" embracing the vast Pacific basin from the lower Andes, up through the Sierra and Cascade Mountains, across the Aleutian and Kurile island chains and southward through the Japanese and Malay archipelagos. Concentrated in this zone are the majority of the active volcanoes. It is distinguished furthermore by the world's most violent volcano. This is Krakaton, an islet in the Netherlands East Indies between Sumatra and Java, which blew its top in 1883, making the loudest noise human ears have ever heard, heaving a cubic mile of solid rock into the air and engulfing 36,000 people in a tidal wave. Its last eruption occurred in 1940.



Design of earth's interior, with progressively hotter molten layers surrounding the core, has been deduced from earthquake studies. The core is supposedly liquid iron. Thickness of crust has been exaggerated to make it visible in scale of this diagram.



Parícutin's first year of growth is shown in these progressive profiles drawn from data prepared by Dr. William Foshag of the U. S. National Museum. Note that the volcano attained

half of its height and erupted about one-eighth of its bulk in the first month. In addition to solid and liquid rock, volcanoes erupt tremendous quantities of hot gas, which earth's under-

ground pressures hold in solution in the molten rock much as carbon dioxide is held in solution in soda water. The explosive release of gases is source of violence of volcanic eruptions.



Solid and liquid lava flows erupted by Parícutin during first year are shown in this plan. Five of the seven major lava flows rolled out northward (left, above) across the winding highway

from Parícutin toward Mexico City. Flow of June 1943 came within 600 feet of the Parícutin church and village (bottom), which had long since been evacuated. The "observatory" is a

shack which shelters visiting geologists. Because of the war, Parícutin has not had due scientific study. The great active volcanoes have established observatories with full-time staffs,



Basalt boulder was thrown up over the edge of crater and rolled downhill to base. Solid rock like this, rather than liquid lava, is the typical product of a cinder cone eruption. In its violent phases Parícutin has hurled equally big bombs high into air.



Parícutin flow rolls and tumbles over the dust-covered ground. Its slow progress fills air with clinking of brittle fragments and crackling sound made by big rocks as they split open under tension of uneven cooling. Most violent Parícutin flow advanced at rate of seven feet per hour. Interior of flow is plastic.

VESUVIUS

ERUPTION OF WORLD'S MOST FAMOUS VOLCANO COMPETES FOR ATTENTION WITH WAR IN ITALY

Mexico's Paricutin is a mere pimple on the earth's crust compared to the ancient, full-blown boil of Mt. Vesuvius on the Bay of Naples. Ever since the first century of the Christian era Vesuvius has seethed in chronic eruption. The mountain first thundered into volcanic life in 79 A. D. after an eon of apparent extinction. Its explosion on Aug. 24 that year destroyed three ancient Roman cities, Herculaneum, Stabiae and Pompeii. Overwhelmed by earthquake, fire, lava and incandescent gases, several thousand people died and were buried under the deluge of volcanic ash. On an irregular schedule of outbreaks in 202, 472, 512, 685, 993, 1036 and 1139, Vesuvius built up to a second major

catastrophe in 1631, when it killed 18,000 people. It has since scarcely had a quiet moment, erupting most notably in 1766, 1779, 1822, 1906 and 1929.

Its latest major outbreak has, during past three weeks, compounded the complexities of fighting a war and of merely existing in southern Italy. Beginning on March 18 and still continuing, the eruption has given the Allied Military Government several thousand more refugees to look after and brightened the night horizon as far north as Anzio beachhead. A LIFE correspondent in Naples here gives an account of this new phase in Vesuvius' long history, with firsthand detail from Prof. Giuseppe Imbo, director at the conical Mt. Vesuvius Observatory.

Naples

"First it was 20 years of *Fascismo*. Then it was the Germans. Then it was the Allied bombing. And now, Vesuvius! *Mamma mia!* It is the end of the world."

Thus spoke an Italian peasant from one of the little towns that lie buried under the still-smoking stream of lava from Mt. Vesuvius. He had climbed up almost to the volcano's cone to tell



PROFESSOR IMBO PEERS ANXIOUSLY AT SEISMOGRAPH

his troubles to the director of Mt. Vesuvius Observatory, Professor Giuseppe Imbo.

For Professor Imbo, last week was the climax of his professional career. Ever since 1922 he has been keeping watch on Mt. Vesuvius, reading its tremors on the seismograph, listening to its occasional rumbles, sniffing gases that came from its crater. During the last war and again during the late 1920s, there were small lava flows and clouds of smoke, but nothing like the great eruptions which have occurred once or twice a century since the burial of Pompeii in 79 A. D.

The first warning tremor of the current eruption flickered across the observatory seismograph on March 13. It could hardly have come at a less convenient time. Italy was a theater of war and most of the observatory was no longer available to Professor Imbo. But there was no doubt in the volcanologist's mind that he must be with his mountain during the great crisis he could see shaping up. With his wife and a small store of provisions he moved into a little garret room of the observatory and made up his bed beside his instruments.

Day by day, as the tremors grew worse, Professor Imbo grew more and more excited. He woke up many times a night to scan his instruments, or lay in bed looking up at the cone for signs of fire. Sometimes he walked down the mountain to spread a warning among the villagers on the slopes. At 4:30 on the afternoon of March 18 the eruption began. Molten lava welled up through fissures in the floor of the crater, poured over the rim and began flowing down the sides of the mountain. As each tongue of smoking lava moved down the slopes, Professor Imbo followed it along with an instrument which looked like a

great pair of pincers, taking the temperature to determine how much farther it would flow. Within three days the lava had pushed its way over fields and vineyards and into three towns, burying hundreds of houses.

At 5:30 p.m. on the 20th, the "effusive" phase of the eruption ended and the "explosive" phase began. In the explosive-lava stage the volcano hurled great chunks of lava into the air with thunderous noises and flashes of lightning. In the explosive-ash phase, dense clouds of gas, heavily laden with hot cinders, poured forth, covering the countryside with a pall of smoke and laying a thick coating of ash across the Italian peninsula from Naples to Bari. The ruins of Pompeii were reburied under nearly a foot of ash, traffic was stopped on the Autostrade and 24 people were killed by hot cinders or suffocation.

As the impresario of this awesome spectacle, Professor Imbo was filled with excitement, pride and regret. He was proud to have his volcano receive such a burst of attention from the corps of foreign correspondents who rushed back from the



OBSERVATORY (LEFT) HAS GOOD VIEW OF CONE (RIGHT)

battlefront to cover the eruption. But he thought wistfully of the scientific furor which would have been caused by an eruption in peacetime, with eager volcanologists hastening from many countries to observe the phenomenon. Now under the hard conditions of wartime, he had neither scientific visitors nor a proper frock coat to receive them in.

At first the professor did not even have a car to get up or down the mountain. The generals in limousines and the privates in jeeps who bounced up the rocky road to the observatory sometimes had to stop and give the director himself a lift as he trudged along on foot.

Even after the Allied Control Commission, needing his advice about evacuating villages in the path of the lava, furnished him with a car, Professor Imbo was faced with other difficulties. Having made the first seismological charts of the major volcanic eruption, he had no alcohol to keep the charts from smudging. Once he walked down the mountain to apply to the authorities for a little alcohol, but the timid little professor was

brusquely turned away and it wasn't until an American colonel gave him two liters from the Army medical supplies that he could preserve his priceless records for science. Worst of all, the professor had no film to make a pictorial record of the eruption.

Professor Imbo will be busy for many months working over his records of the eruption and preparing reports for various scientific institutions. He has already confirmed a theory of his own that a volcano can erupt without a preceding earthquake. And with his own eyes he has seen flashes of lightning over the crater during the explosive phase of the eruption. This phenomenon, evidently caused by friction of rock particles in the air, had been reported by observers of previous eruptions but had been doubted by many volcanologists, including Professor Imbo himself.

Professor Imbo thinks the current eruption may be the end of a cycle in the life of Vesuvius which began in 1913. The great eruption of 1906 had left the floor of the crater deep below the rim. Beginning in 1913 it began to build up gradually, erupting every few years in small craters within the great crater. By this year the floor of the volcano had risen almost to the lip of the crater. Not until Vesuvius has ceased smoking and the crater has cooled off will Professor Imbo be able to go down into it and see whether the floor has dropped back again, indicating the end of a volcanic cycle.

He has lived with the volcano so long he takes a kind of proprietary interest in it. He does not like to have peasants regard it as an evil force, or hear them mutter that the great mountain dragon is breathing fire in anger at the end of Mussolini. To be sure, Vesuvius sometimes kills people or buries their homes, but he likes to look



VESUVIUS GLOWS AS REFUGEES MAKE WAY THROUGH DUST

on the brighter side. "A marvelous thing, my Vesuvius," Professor Imbo says. "It covers land with precious ash that makes the earth fertile and grapes grow, and wine. That's why, after every eruption, people rebuild their homes on the slopes of the volcano. That is why they call the slopes of Vesuvius the *campania felix*—the happy land."



VESUVIUS' LAVA DUST SPIRALS ABOVE NAPLES





SIMULATED-DIAMOND BRACELET ON WEIRD HAND ADORNS NATURAL LEGHORN

HEDDA HOPPER'S HATS

They're ultra-zany creations even in Hollywood

In Hollywood Hedda Hopper is almost as well-known for her hats as she is for her column of movie small talk which appears in 5,082 newspapers throughout U. S. In her passion for daffy headpieces she is as shameless as a child. She has 150, all styled to please her taste for the bizarre. On the opposite page she is shown reclining among several dozen of them.

Of her indulgence Miss Hopper says, "I wear anything on my head from a chicken coop to the Eiffel Tower." Hollywood readily concurs. No important movie function is complete until she has floated in wearing a hat which stops conversation cold. She buys these creations three or four at a time, usually from John Fredericks, pays on an average up to \$50 for them.

Only once did sheer mob harassment cause Hedda to remove a hat—when two tykes pursued her for blocks hooting at the fur monstrosity on her head.

"CITY SLICKER HAT" SPORTS AN ASSORTMENT OF DIME-STORE INSTRUMENTS



CONTINUED ON NEXT PAGE



WOMEN'S FEET
WANTED

"How about you stepping into us, lady?"

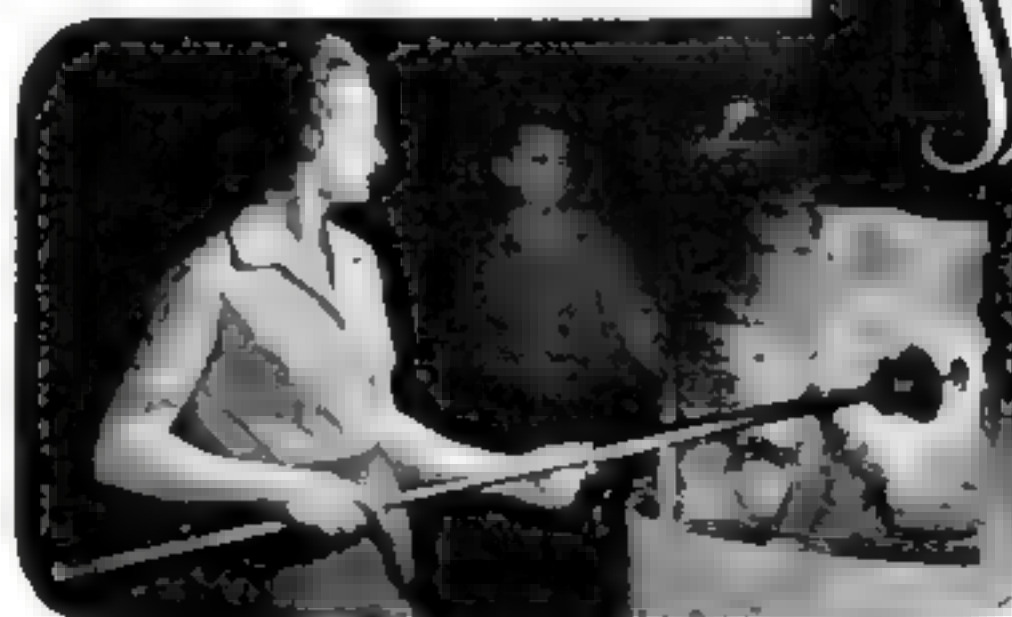
"Some woman must, while Jim's away . . . and too many offer excuses."

"There's work to do, more than the men who are left can handle. Women, like you, are the only answer."

"So won't you re-examine those reasons for not working? See if you can't manage to step into us till Jim comes back."

Millions of women are working already but many more are critically needed in factories, stores and services. Look in the want-ads and pick out a job . . . today.

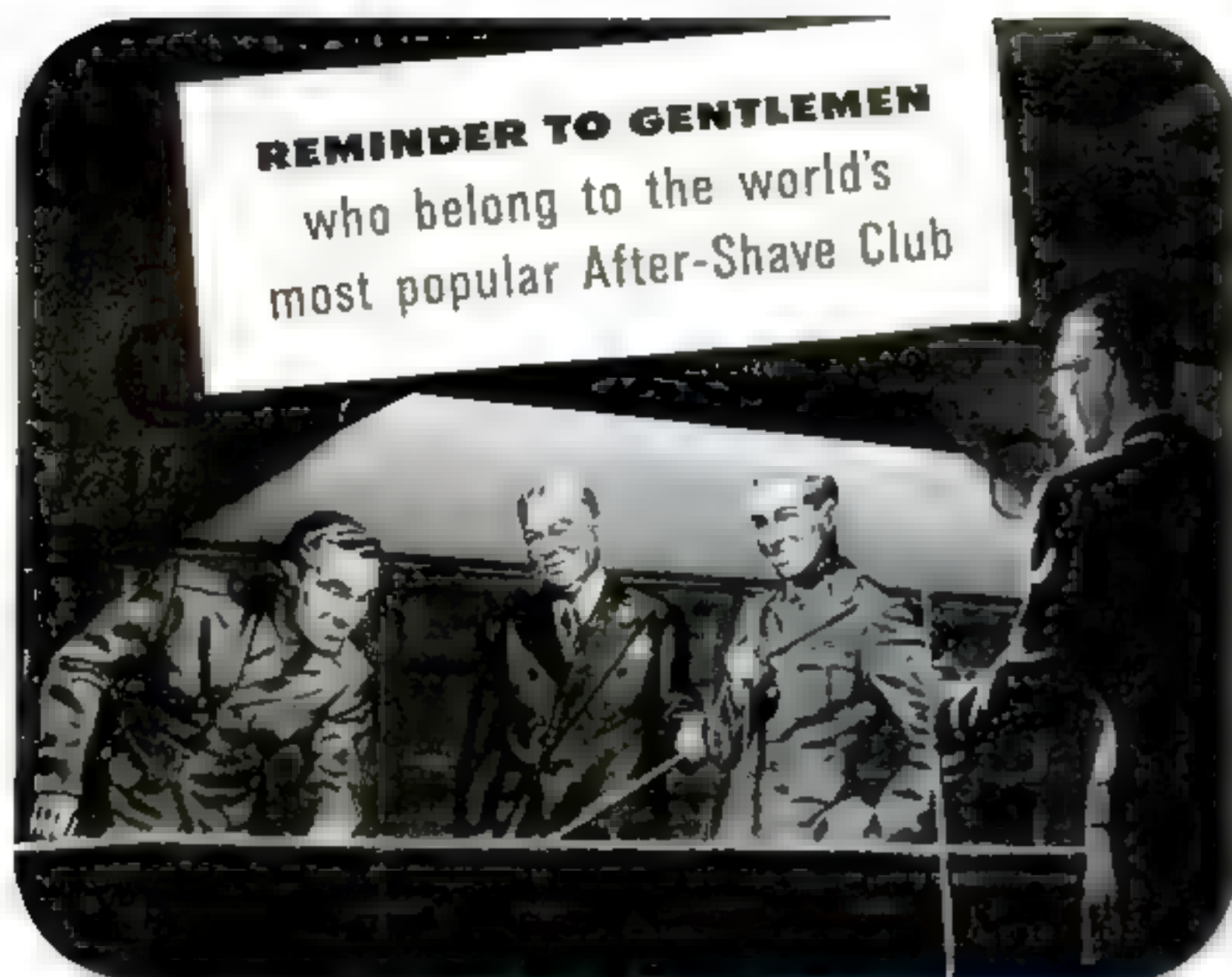
THE MORE WOMEN AT WORK
... THE SOONER WE'LL WIN



Fostoria
MADE IN U.S.A.

One of many women in the Fostoria plant relieving men for war service. With a long rod she holds a piece of crystal in the "glory-hole" to be fire-polished. That's one reason why Fostoria has such a brilliant sparkle. See it at local Fostoria stores.

FOSTORIA GLASS COMPANY . . . MOUNDSVILLE, W. VA.



AQUA VELVA has long been the world's most popular after-shave lotion. But now, with certain essential ingredients being used for war production, the supply is limited. There is less Aqua Velva available to meet a growing demand from civilians and members of the Armed Forces.

Avoid Waste. You will be able to enjoy Aqua Velva more often if you use it carefully. It takes only a few cool, refreshing drops of Aqua Velva after shaving to leave your face feeling braced and tingling—softer and smoother. Fresh, pleasant scent.



A FEW OF THE MEMBERS

TED HUSING

LOUIS BROMFIELD

Rear Admiral YATES STIRLING, Jr., Ret.

Brig. Gen. HENRY J. REILLY, O.R.C.

Sr CEDRIC HARDWICKE

PAUL LUKAS

Hopper's Hats (continued)



"Caught in the henhouse" is pinwheel of pheasant feathers. Of one of her hats impish Charlie McCarthy said, "I think it would be good for frightening away hicups."



Most conservative of Hedda's hats is probably this simple skimmer with black veil and pink dots. As a child Hedda spent most of her time creating hats for her dolls.



A Christmas hat was made from tinsel and tree decorations by John Hambleton.



Easter egg nestles on this hat. Says Hopper: "Many lay them, few wear them."



Chinese ceremonial hat was presented to Hedda by Actor Vincent Price after she boasted she would wear anything. Top part of crown is made of wood and gold leaf.



Mexican hat is improvised by fastening huge brim around her head with rubber band. Other hats in Hopper collection are made of a gourd, feather duster, ordinary wire.



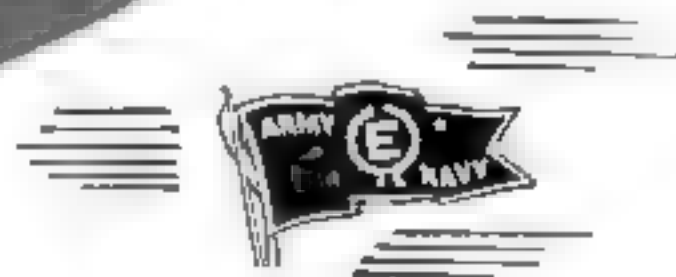
Motorola Radio
"HANDIE-TALKIE"
fights with
CARLSON'S RAIDERS
in
GUNG HO!

The great story of Lt. Col. Evans Carlson and his Marine Corps raid on Jap-held Makin Island can now be seen in Walter Wanger's exciting Universal war movie.

You'll see Motorola Radio's famous Handie-Talkie at work in battles against the Jap that add greater glory to our fighting leathernecks. The picture takes its title from the Marine battle cry, "GUNG HO," which in Chinese means "work together" That's a good slogan for everyone on the home front too! Let's *all* work together!

HANDIE-TALKIE
 IS ANOTHER

Motorola
Radio
"FIRST"





Professor William Ernest Hocking, at 70, is one of America's most distinguished philosophers. He has accumulated degrees from 15 colleges and universities. Until his retirement this year he was head of Harvard's philosophy department, where he carried on the great tradition of Josiah Royce. He has also taught

at Yale, Princeton, California, Andover Theological Seminary, Oxford and Cambridge. He is one of only six Americans in 56 years to have delivered the famed Gifford Lectures in Scotland. The other five: Royce, William James, John Dewey, A. N. Whitehead, Reinhold Niebuhr. During the last war he made

pioneer studies of morale at the front and later lectured at the Navy War College and at Annapolis. He is now active in the Army's educational program for our soldiers overseas. Among his many books are *Man and the State*, *Law and Rights*, *The Spirit of World Politics* and the forthcoming *Man and the Idea of God*.

AMERICA'S WORLD PURPOSE

In seeking a foreign policy we are being dangerously misled by discord among our prophets. To find a positive policy, we must recover confidence in America's special character and mission

by WILLIAM ERNEST HOCKING

There was a time when the minting of Four Freedoms or the promulgation of an Atlantic Charter or the announcement of a set of general principles like those recently put together by Secretary of State Hull would have satisfied the American people that they and their leaders have a foreign policy. This is no longer the case.

It is not merely that the ideals which are supposed to guide policy are not the policy itself. When, as Mr. Churchill's speeches slowly disclose, it appears that these ideals are not supposed to apply to Asia, nor to enemy countries, nor to any imperialists there may happen to be among the United Nations, the question arises whether the real policy may not be on different lines. Our question is in part an echo of a rising doubt whether such "idealism" is satisfactory or workable as a basis for foreign policy today.

We are reliably told that it is not. And we are asked to subscribe to something more "realistic," more cognizant of the portentous facts of power, clash of interest, and opportunity in the world of states. The McCormick-Patterson trend with its eye on opportunity would have us serve "America first" with this realism. Walter Lippmann with his eye on power would have us tie to "security first" with the same realism.

In my judgment we are here being dangerously misled by false issues. There is no idealism worth its salt which is not fully awake to all the facts, hard and soft, that exist. And there is no realism deserving its name which overlooks the hardest of hard facts, those ideals for which alone a civilized people can be got to fight a war.

The only kind of policy Americans can use is one in which ideals and facts are fused into a working unity and freed from the excesses of these opposing trends. Taken alone, "America first" promises endless future friction, rivalry, and war, as Mr. Lippmann clearly sees. But also, taken alone, "security first" means a policy which ties our hands, and still more, through alliance, our national conscience.

The policy of "security first" deserves a good look on its own merits, apart from Mr. Lippmann's sagacious argument, just to see where it would take us. That we must have security is an axiom. So must an individual; but it is an empty and fear-ridden life whose primary object is to avoid getting killed. The security of living things is the incidental security of skill in managing the risks of action. The words "security," "defense," "alliance" are the great words for a moat-and-castle age, not for an age in which no moats can be dug and every all-round alliance so compromises policy as to cancel all that is distinctive of national character.

In a word, "security first" given full sweep would produce a policy passive, negative and flabby in principle. The time requires of us a positive and outgoing policy built on radically different lines.

In simplest terms, to have a positive policy is to make history instead of letting history happen to us or trying to fend it off.

All human history is the merging of two streams,

the stream of outer events and the stream of human purpose. In this mingling human purpose never gets all its own way. But it leaves its mark on events, and by the accumulation of such marks the world is slowly humanized. A positive foreign policy is nothing more than continuing in action this indomitable human belief in purpose. To have a positive policy is to have an idea of what kind of world we prefer and to work for that kind of world.

It follows as a matter of course that if you have no ideas you can have no positive policy. And that if you have no faith in purpose nor in yourself you can have no positive policy. It may be that these two lacks are what is the matter with us just now.

If we have come to a slump in the hope of "getting an improvement out of this war," this is a new low in American self-confidence. And it is peculiarly untimely, for of all moments in history it is at this present moment that this nation has most to contribute to the world of tomorrow.

Insistent preoccupation with winning the war, plus a desperate resolve to avoid Wilson's mistakes, is made an excuse by men in high office for not doing positive steering now. But it is precisely because of the war that this steering must be done now. For with the evils of war there comes one good, an unexampled limbering of will and resources, a profound willingness and even desire to accept painful change. President Wilson may have schemed too much. To avoid his error by scheming nothing is to correct surfeit by starvation, a remedy that can be overdone. Nature has a cure for surfeit, none for starvation.

To defeat our enemies is obvious first business. But when are they defeated? When they can no longer forcibly deflect our own political will. To win the war means to recover our own freedom of political action. Unless we have something to do with it, the recovered freedom is meaningless; it is the aim beyond victory which alone justifies the fighting. To have no such aim suggests a mental and normal vacuum not creditable, and hardly credible, in a great people.

There are understandable causes for our present loss of nerve. Some of them go back to the between-wars period. It may clear the air for a positive policy to get a better perspective on this period.

Did we fail at Versailles?

After we entered the last world war, we improvised a foreign policy that was positive and specific. We had Fourteen Points and several speeches. We tried to put the ideas contained in these documents into effect. We have been told that we failed. With strange meekness, we have accepted this dour and inaccurate verdict.

We did not wholly succeed, but who does? The point is, we did not wholly fail.

Our plan was indeed mutilated. Only five of Wilson's points were set into the Treaty. Our Armistice agreement was betrayed and our nation, unwisely but not without ground, declined to

back the crippled program. We had lost our first battle, that of convincing the warmakers of Europe, who were unfortunately also the peacemakers. The remnant of our plan was accepted with an undertow of cynical amusement; long after the Paris Conference our associates in Europe were still referring to "les idées wilsoniennes" with an indulgent shrug.

But the main thing to remember—aside from these vanities and strummings or even the massive disappointments of that time—is that a great experiment in international collaboration went forward, in part an American project. Every subsequent effort along this line will have the experience of the League of Nations to guide it. Because of the League, the whole problem of a future international structure is concrete, and not purely conjectural. The League's successes, and its failures as well, become the essential data for drawing specifications for a new attempt that must be made and will have American participation.

Let me make two passing remarks, one concerning hidden successes of the League, the other concerning hidden causes of its weakness.

On hidden successes. The League influenced practice even where it did not officially act. For instance, in setting up mandates, it influenced the administration of colonies, which were wholly outside its field. When colonies and mandates existed side by side, as throughout Africa, two things were bound to happen: the mandate would slump toward the colony, the colony would rise toward the mandate. In spite of grave defects in the mandate system the average treatment of dependencies was improved and can never again revert to its pre-1914 level. That is something done.

On hidden causes of weakness. The common criticism is that the League had no army to enforce its advice; its "military sanctions" were too far in the background to be effective. This is bad analysis. The makers of the League Covenant considered and definitely and wisely rejected the idea of a "League to Enforce Peace" which would have been a League with few members: its main reliance was to be public opinion. The hidden weakness of the League was not that it had no army, but that it had no public opinion. And the reason it had no public opinion was chiefly lack of time.

It is easy to overlook the immense influence of the time factor in all political events. Public opinion cannot be assumed and cannot be improvised. Where there is no information, there can be no interest; and where there is no interest there can be no opinion. If Mr. Chamberlain in 1938, returning from Munich, could refer to the Czechoslovakians as "a faraway people of whom we know nothing," what shall we say of the average news-reader of the planet for whom all foreign lands are too far away? Ignorance of the distant taken as the normal state of man becomes an argument for complete isolationism. We can only escape this argument by setting up organs for creating public opinion and giving them time to work. It is not surprising that on most of the

questions which the League evaded there was no public opinion at all.

Further, the League itself could not from the beginning exercise a moral authority which it required time to establish. In 1928 I made inquiries in Geneva about the causes of the League's backwardness in dealing with insistent boundary problems. One answer by a League official went far: "Give us 10 years," he said. "Your Supreme Court had to build its prestige before it could decide issues between states; so must the League. In 10 years the great powers will accept our judgment, but not yet."

A weakness which time will cure is not a weakness inherent in the idea. It becomes a fatal weakness only if the needed time is denied. This is precisely what the blow of Japan in Manchuria in 1931 intentionally achieved. During that year the League was arranging a program of effective support to China, both in education and finance. This great new republic was perceptibly unifying its vast and shambling group of provinces. The war party of Japan saw in a strong China and a strong League in Asia an end to its hopes of domination. It timed its stroke to wreck both these prospects. Its action is strong evidence for my contention that, in spite of all other handicaps, time was bringing to the League political effectiveness.

In 1932 the balance between success or failure of the League's system of collective security in the Far East was very close, even to Japan. I was there during that year and witnessed the tension between parties, and the strength of League supporters even while the Lytton Commission was doing its work, and Japanese forces were carrying on their "incident" in Shanghai. After Japan announced its withdrawal from the League and Italy undertook its campaign in Abyssinia, the disintegration was rapid. But we cannot wisely forget the nearness of success, the accidents which turned the scale and the immense influence of the factor of time. We have no right to hang around our necks the disabling tokens of failure, so far as our first essay in international cooperation is concerned. We may turn free of mind to the thought of a positive foreign policy for the present moment.

Expansion need not mean war

Foreign policy is necessary because the activities of states overflow their own borders. They have always done so; they do so now with increasing range and tempo.

This is obviously true of the private activities of citizens in trade and travel. Norway could once do very well with off-coast fishing. As sewing machines and motorcars became staples of life she began to deal with America. As coffee and tea, tobacco and citrus fruits entered her menu she took on half a dozen more distant relationships. As she developed an electrochemical industry, she required technical and scientific contributions from many lands and has made her own contributions to them in return. Before the war, Norway had the fourth merchant fleet in the world: she was using what the world had to offer.

Now with this growing back-and-forth of goods, services and ideas, there has to go an increasing back-and-forth of political concern.

Wherever men and goods travel, there must go some understanding of rights and duties, some way of adjusting disputes, some basis of law accepted by both sides. Hence the picture of commercial and cultural interdependence is at the same time a picture of the advance of political activity. There is no standing frontier for American political concern, say at the Rhine or at the coast of China. The boundary moves outward in all directions until, having covered the earth, it annihilates itself. Each state, in terms of its political concern and influence, tends to be everywhere.

Today even the domestic legislation of any great power sends instant tremors through all

More and more in the last few months Americans have been demanding that our foreign policy be "practical," be "realistic." At the same time we are discovering that foreign policy can't be "practical" if it is muddleheaded on basic principles. William Ernest Hocking believes that this seeming conflict between principle and practice is humbug. In this article he outlines a foreign policy which is neither blind nor dreamy, but positive and American. He shows why we should be proud, rather than ashamed, of our role in the Peace of Versailles; how nations can expand without hurting each other; how our true economic interests have broadened, and why "sovereignty" is not really an obstacle to the development of international law. Professor Hocking is one of those rare men who combine an ability to think with a practical knowledge of the world. His wide travels and acquaintance in Asia, the Near East, Africa and Europe have made him a true expert on foreign affairs. One of his many intellectual achievements has been to grasp the essential character of all the world's great religions and to distinguish in his books (notably *Living Religions* and *A World Faith*) between the things that really divide the members of mankind, and the things that really link them.

the others. It is not surprising that this aggressive, outgoing action of state-wills arouses frequent resentment. But the rule of expansion of political life can hardly be curbed or reversed without reversing the trend of civilization.

The result of this expansion is friction of various sorts and degrees. Since humanity commonly learns things the hardest way, history is largely a record of the hostile clash of rival political expansions. In the age of America's colonial settlement, European states were overflowing into a relatively empty region, spilling their men and energy into the New World. These expansions clashed at the outer edges and we had a series of colonial wars.

In the last two centuries what we had was not so much the migration of men as the *overflow of a system*. The economic systems of Europe have been less and less capable of running to best effect without sweeping into their circuits outside regions and peoples as suppliers of materials and markets. Foreign policy took the form of empire building. World history was bearing out Machiavelli's view that a vigorous state can remain healthy only if it expands, and since expansion meant to him conquest, this empire-building policy bore little promise of peace. As the world filled up, rival expanders would have to collide. The era of empire building was bound to ripen into an era of wars among empires and empire-aspirants. That is where we are today.

And as we look ahead, the law of expanding state action seems to promise little better than struggle on a still more colossal scale, unless we can find an alternative to the head-on opposition of the outreaching purposes of states.

In the world of physics, there is such an alternative. Migrating billiard balls cannot pass through one another: encounter means displace-

ment. But migrating waves from different centers (as on the surface of a pond) can pass through one another without conflict, adding themselves to one another as they pass. And ordinarily, two gases, released into the same closed space, will expand through one another until each fills the entire space. In the physical world there are numerous examples of "interpenetration." Is it conceivable that political expansions might also interpenetrate like waves, rather than collide like billiard balls?

Let us answer this question by asking another.

Is it true that the purposes of states are based solely on self-interest? And that the self-interests of states are at bottom contrary or competitive? If this is the case, then the result of their encounter can only be hostility, however honeyed over by diplomatic palaver. This is the great and traditional game of foreign policy whose essence is undercover warfare and whose stakes are the inchings up or down of the lives of nations. Current "realism" accepts this picture.

If, however, the purposes of states are based indeed on self-interest but not solely on self-interest; and if the self-interest element is not necessarily competitive, but can be so shaped that A's gain is also B's gain, the outlook is radically different. There can be an *interpenetration of purposes* on the analogy of the waves. A positive policy becomes possible, a policy in which a state, not abandoning its self-interest, would devise a way to *create an identity* of self-interests in precisely those spots where, apart from this inventiveness, conflict must have occurred. And the old game may acquire an aroma of honesty in place of its ancient smell of clever deceptiveness.

But is any such policy practicable?

The best answer is that it has occurred, and that it has worked. And as a fact of interest to Americans, the best examples seem to be those in which an American mind has been a decisive factor. The Open Door Policy is a case in point.

Everybody connects with that policy the name of John Hay; but just what the policy meant is variously misunderstood. The popular understanding is that it was a claim on our part, put forward in 1899 when settlements among rival powers were going on in China, to share on equal terms with these other powers in Chinese trade. Owen Lattimore regards it as a rather self-righteous operation in which we claim a share of the fruits of British, Dutch, French imperialism without assuming any imperial responsibilities. But there was another side to the policy. China was protected from imminent dismemberment. The essence of the Open Door Policy was a new idea, one in which the interests of the competing powers were met, our interests were promoted, the interests of China were satisfied and China herself protected. The stroke of genius was the invention whereby interests which had been competing were made noncompeting and, in fact, interpenetrating.

The time has now come when the mutual intrusions of political wills are so widespread that a policy of interpenetrating purposes has become essential to world peace. Cultural interests are in their own nature interpenetrating: to spread a scientific idea creates no friction. Economic interests have a competitive base, and



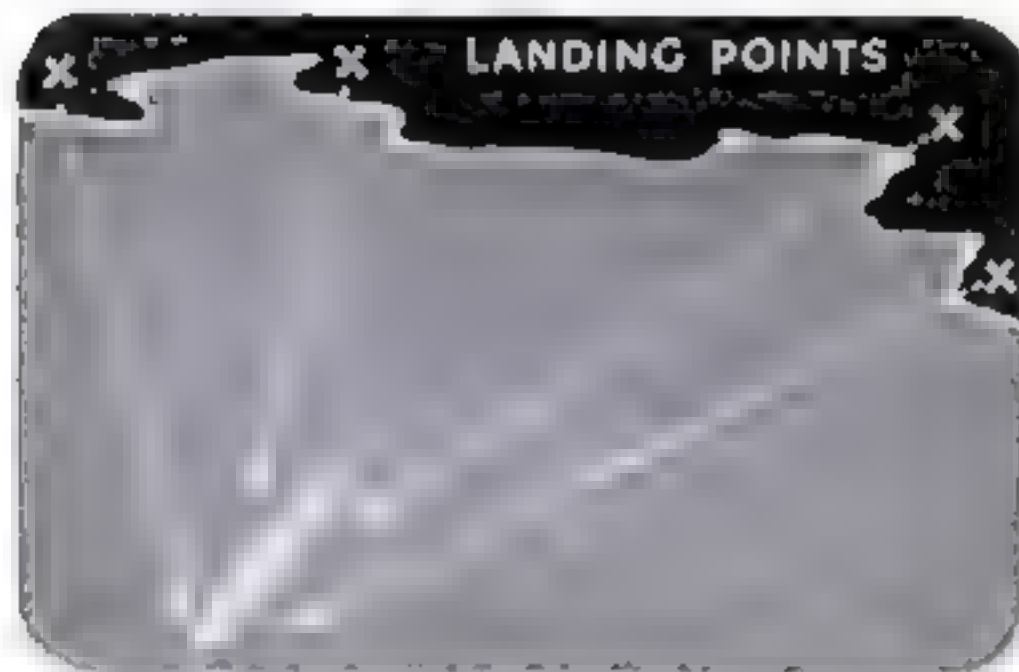
Landing troops on a hostile shore is war's most dangerous operation. Enemy guns open up on transports. Bombers get busy. Landing barges

feel their way in through mined waters. Men wade through waist-high surf to cut barbed wire. Enemy machine guns spit death.

What it takes to launch an invasion . . .

To Invade Europe (or Japan), thousands of barges carrying men and equipment must land at specified, widely separated points with *split-second* timing.

Silence and darkness are essential. No guide lights, no radio, no shouts.



Months before the landing craft start to nose ashore, our Armed Forces must have solved literally thousands of difficult problems, leaving nothing undone to make our fighting men as safe as men can be in battle.

Once the invasion begins, everything is up to the skill of the officers and men of the Navy and Coast Guard, aided by the compass in each landing craft they man. The compass must be *non-magnetic*...unaffected by electrical machinery, ship's structure, or by cargoes of tanks, guns, trucks, and jeeps. The Gyro-Compass is such a compass, but . . .

The regular-size Sperry Gyro-Compass, used

by the Navy since 1912, is too big for small invasion craft. Fortunately, experts in the Gyro-Compass office of the Navy Department had foreseen this difficulty.

Back in 1940, they said to Sperry, "We need a lightweight Gyro-Compass for small vessels. We want it by ——. Here are our specifications."

It had previously been considered impossible to make a Gyro-Compass of the size the Navy required. But new techniques, including the application of electronics, enabled our engineers to have a satisfactory functional model operating within three months.



Thanks to Navy foresight, quantities of these small Gyro-Compasses are in use today in our LCI (Landing Craft-Infantry), LCC (Landing Craft-Command), LSM (Landing Ship-Mechanized), and Submarine Chasers.

Our engineers and production experts not only met the Navy's requirements and got these Gyro-Compasses rolling in the Sperry plant, but they

assisted one of the Navy's prime contractors, Package Machinery Company, of Springfield, Mass., in tooling up and in training personnel to produce additional Gyro-Compasses.

Sperry's part in all this has been small compared with the whole vastly complex operation. We could help the Navy solve this problem only because for 32 years our business—in war and peace—has been to solve difficult technical problems through research, invention, and precision engineering.

But all Sperry, or any other company, can do is mighty small potatoes stacked up against the job of the fellows who splash ashore and do the fighting that clears the invasion beachheads!

★ LET'S ALL KEEP BACKING THE ATTACK ★

SPERRY
CORPORATION
30 Rockefeller Plaza, New York 20

FORD INSTRUMENT CO., INC.
SPERRY GYROSCOPE CO., INC.
VICKERS, INC.
Waterbury Tool Division, VICKERS, INC.

CLEANS

FURNITURE
FLOORS, WOODWORK
TOOLS, MACHINERY
BED SPRINGS
PAINT BRUSHES
BATHTUBS, TOILETS

AMERICAN TURPENTINE FARMERS ASSOC., VALDOSTA, GA.

SOLD BY
Drug Stores, Variety
Stores, Hardware Stores,
Paint Stores, Grocery
Stores.



ALWAYS USE GUM TURPENTINE TO
THIN PAINTS, VARNISHES AND ENAMELS

THAT WORD **WORMS** I KNOW TOO WELL!

I like most dogs, I've had worms a number of times—and, let me tell you, it's no fun!

First time, I was a pup. Worms nearly got me for good—but the Boss looked up my symptoms in the Sergeant's Dog Book, and gave me Sergeant's Puppy Capsules. They cleared out the worms, and all was well. I've had 'em since, and benten them with Sergeant's SURE SHOT Capsules. Now the Boss worms me regularly—and I don't worry.

Don't miss the new Sergeant's Dog Book. It's free at drug and pet stores—or with this coupon.



FREE

Sergeant's, Dept. 3-D, Richmond 20, Va.
Please mail the NEW, 40-page, illus-
trated Sergeant's Dog Book to:

Name _____
Address _____
City _____ State _____

Sergeant's
DOG MEDICINES

AMERICA'S WORLD PURPOSE (continued)

they are among the chief roots of trouble. But they are also among the most plastic to invention of lines of mutual advantage. Political interests remain difficult and the problem here is far from solution. Oppositions of interest are still the rule and will remain so as long as we allow it.

But since this situation can be changed, it becomes the most insistent task of foreign policy to change it. It is a task for which we believe this country has a peculiar gift. We propose to follow this guiding principle of devised agreement into two of the fields in which policy has now to be made, economics and international law.

Our prosperity and others'

The foreign policy of this nation has never been inclined to busy itself systematically with the economic troubles of other peoples, and for good reasons. The economic picture of each region of earth is unique. Each has a unique and crooked bit of geography, in which unique human qualities are applied to unique soils, resources, climates—all with unique results. No economy on the planet is interchangeable with any other. The Eskimo does not compare his lot with that of the Dakota farmer, nor wish to go there. If he did he would then have to stop being an Eskimo.

Hence the protection of a high standard of living, joint product of a good soil, high human ability and hard work is not unmitigated selfishness. The world would be poorer, not richer, if standards were leveled off. Philanthropy on a world scale is an impossible policy; also highly unwelcome. Minding one's business is not a bad way of serving the general good.

These traditional American reflections are sound in principle; but they have now become incomplete. For however much we are willing to mind our own business, a great economy will not and cannot mind its own business.

The international version of laissez faire would be *Let every nation look out for itself*, with perhaps a pious addendum to the effect that God means the strongest people to survive. But the hurt done to other peoples, if it is serious enough, gets around home and suggests a prudential modification:

Avoid economic policies which materially damage your good customers and your debtors.

This puts a brake upon the complete carefreeness of tariff and currency legislation; but it still leaves us a long distance from any positive obligation to the outside world, such as:

Every nation has a duty to shape its economic policies so that their impact on other nations shall be useful to both. This strikes us at first as a counsel of perfection, too far away from the counsel of prudence. But between the two there is this:

No nation dare any longer be indifferent to the economic situation and destiny of other nations.

It was here that we, in common with England and France, failed in the between-wars period. We failed to see that in the story of growing interdependence the critical turn had been reached at which the prosperity of Europe, including Germany, had become a necessary part of our own prosperity. Indifference to the European living standard, though it looked like the realest brand of realism, was no longer even common sense. Had we seen and acted on this, the breach of world peace might never have occurred. This failure we share with our allies. It is visible in our unconscionable tariffs, in our ruining with a tweak of the presidential thumb the London Economic Conference of 1933, in the thwarting of reviving industrial life in Germany by the fears of France, halfheartedly seconded by an England which under false pretenses had materially aggrandized her empire at the cost to Germany of her African colonies.

Now the important thing at that time, as always, was not to find the final answer to a complex economic problem, but to give attention to it. Nobody yet knows what "just distribution" is inside a nation, still less in a society of nations. It is less important for world peace that justice be found than that it be sought. The explosive factor in history is not suffering; it is indifference to suffering on the part of the nonsuffering.

We may have learned by this failure of our pseudo realism. There are signs that at least in one or two spots we are ready to set up a positive policy in the economic field.

As to the redistribution of industry: we in America are about ready to some extent to promote industry, even industry which will compete with our own, in regions which require industrial development for their own economic balance. Taking a long view, we see this not as altruism but as good business.

Another phase of economy which has an equally great and far more immediate field of possibility is agriculture, especially as bearing on standards of living in eastern and southern Asia. These stand-



TAKE A TIP FROM ME

TRY **"BC"**

FOR QUICK RELIEF FROM
HEADACHES
NEURALGIC & MUSCULAR PAINS

10¢
AND
25¢
USE AS
DIRECTED



WORKERS! WHO SUFFER

'FACTORY' ITCH SKIN RASHES

Famous
Liquid
Promptly
Relieves
Torture!



First applications of wonderful soothing, highly medicated liquid Zemo—a Doctor's formula—promptly relieve intense itch and burning of simple skin rashes, Eczema, Psoriasis, blemishes and similar skin and scalp irritations due to external cause. Zemo also aids healing. Amazingly successful for over 25 years!

Clean, stainless—invisible Zemo won't show on skin. First trial convinces! Keep a bottle at your work, too. 8 sizes. Buy Extra Strength Zemo for stubborn cases.

ZEMO



FOR HER BIRTHDAY

Give a Canary
"The Singing Pet"

So perky, lively and cheerful, a canary will find a warm place in the heart of any boy or girl. These little songsters are perfect gifts... living gifts that keep on giving joy and companionship to brighten the home. So for her birthday, present her with a canary, "The Only Pet That Sings!"



LARGEST SELLING BIRD SIZE IN U. S.

CONTINUED ON PAGE 127

See LARAINÉ DAY in Paramount's "The Story of Dr. Wassell"



"... and in Nocturnes I've discovered an ideal sleepmaker for summer nights. Nocturne, you know, is North Star's exquisite all wool summer-weight blanket—actually as light as a sheet, yet protectingly snug against sudden cool drafts... When nights turn warm, put your heavy winter blankets safely away—and all summer long sleep serenely under Nocturnes!"

[illegible]



Listen... this is the best one yet!

Here's a highball with goodness that makes itself *heard*... with liveliness that bubbles and sparkles right down to the very last sip.

For the "PIN-POINT CARBONATION"™ of both Canada Dry Water and Ginger Ale means millions of tinier bubbles...perky little bubbles that keep drinks

tangy and zestful in spite of melting ice. Use either Canada Dry Water or Ginger Ale as a mixer. See and hear sparkle and liveliness that add enjoyment to every drink.

***PIN-POINT CARBONATION**—the famous Canada Dry method of achieving livelier and longer-lasting zest.

BUY UNITED STATES WAR BONDS AND STAMPS



CANADA DRY WATER and GINGER ALE

*The
Rum of
Delicious
Flavor*



RONRICO
Best RUM bar none

The Rum Connoisseur contains over 100 tested drink and food recipes. Send for your Free Copy. Ronrico Corporation, Miami, Florida. Ronrico Rum 86, 90 and 151 Proof. United States Representative: Import Division McKesson & Robbins, Inc., N.Y.C.

Copyright 1944. Trademark.

BELL



WATERPROOF

Waterproof, shockproof, radium dial and hands, anti-magnetic, unbreakable crystal precision tested, sweep second hand. No. HR 2—5 jewels, std. brass steel back. \$39.75
No. HR 231—15 jewels, stainless steel case. \$49.50
No. HR 238—17 jewels, SELF WINDING, stainless steel case. \$59.75

Write for Free Illustrated Booklet. **BELL WATCH COMPANY**
Time and Life Bldg. Rockefeller Center New York 20, N.Y.

Footlets

FOR
SPRINGTIME
HEALTH AND
COMFORT

As soon as you start going bare-legged again you'll need new FOOTLETS for cleanliness and comfort. Get them now to wear with your stockings for longer hosiery life. Smart styles at most stores.

"Stocking Stick"

The
Sensationally Different
LEG MAKE-UP

"Easier to put on than Stockings"

Mrs. D. E. N. Estherville, Iowa

★ GUARANTEED EASIEST TO APPLY OR YOUR MONEY BACK

AMERICA'S WORLD PURPOSE (continued)

ards as measured by per-capita income are the lowest among civilized peoples; in prewar China, per-capita income ran in the neighborhood of 20¢ per day; in India about 5¢ per day. These two peoples account for over a third of the population of the planet, upward of 800,000,000 people. And of these, at least 80% are on the land.

Rebellion against poverty has not been the rule in Asia. It is beginning to be the rule now. Aside from its plain human significance, the stability of the Far East is involved. At stake also is the drift of the thought of these masses toward one or other of the economic systems around them. An improvement in the standard of living of this large population would add materially to the market for all industry, their own and others'. There is no point in which so many postwar issues are knotted together.

We, as a nation, are in an extraordinarily favorable position to loosen this knot. Remember the transformation of Russian agriculture during 20 years. In 1917, 85% of the population was on the land, only 15% free for other occupations. The efficiency of agriculture was so low that it required 85% of the population (as compared with about 30% in the U. S.) to raise food-stuffs and raw materials for the whole. By 1939 this proportion had made an astonishing change: only 68% were on the land; 32% were free for other things, an increase of 25,000,000 people. Without this transformation Russia could not have been in the war today. American machines, methods and personnel materially helped in that transformation. We have here indications of functions which we can exercise in China and India and throughout the Far East not only privately, but as a part of national policy, if we have the foresight, imagination and inventive power.

These are but two of the many aspects of the economic picture. Here at least there are economic situations in which national purposes are ready to interpenetrate. And with a devised agreement on the level of material interest there will come also an increase in that indispensable substance called goodwill, which commercial realism recognizes as an intangible asset and which a sound political realism will not ignore.

Law, force and the human mind

Turning now to "international law," this term is likely to bring a shiver of discomfort to the well-trained legal mind. Law to the lawyer is an affair of the statute book or of actual court decisions behind which there are lawmaking bodies, authoritative courts and an apparatus of power to check or punish disobedience. There are no such institutions at the moment for the so-called law of nations. There are merely some common practices among nations, especially in the Law Merchant, which are accepted as useful reference points for settlements.

If international law is to mean something important for the order and peace of the world, it must achieve a far more authoritative position. It must be a source of command so august that sovereign states, great and small alike, will admit its authority over them. This involves a profound wrench to a popular conception of what a sovereign state is—a power which recognizes no law beyond its own will. International law has no chance unless we see that states are sovereign not because they are above all law but because, like mature men, they have sense enough to observe law, *i. e.*, to act in a rational manner without compulsion.

Within any nation, law counts for far more than we commonly think, because most of its work is done without intrusion. Nineteenths of the time law is asking of men only what their own good sense is asking of them. To be rational in one's behavior, respecting the rights of others, is to be law-abiding without knowing it. Why may not the same be true of the behavior of states in a community of states?

For a certain distance, this analogy certainly holds good. There are for states as well as for individuals certain rules of prudence and ordinary justice which can be, and are, taken directly over from private morals or common law, such as paying debts and keeping agreements. And on the whole, the self-interested reasons which support such action are stronger for states than for individuals. An individual may decamp leaving unpaid debts; a state cannot decamp. An individual may retrieve a low credit rating; a state seldom can. For the most part, modern statesmen observe these reasonable rules unless there are "reasons of state" to the contrary. But perhaps, if the rights of nations were recognized as well as the rights of individuals, these disastrous exceptions might be overcome.

Such was the sanguine view which prevailed among liberals until after the first world war. As late as 1916 a "Declaration of the Rights of Nations" was put out by the American Institute of International Law, on the analogy of the French Declaration of the Rights of

Westminster
AMERICA'S FINER SOCKS



What do you do on Easter morn?
Parade, parade, parade.
Your wife in her new spring outfit
Winning every accolade.
Of course you'll want to look your best,
Impeccable top to toes—
So don't overlook the final touch—
Wear smart Westminster Hose.

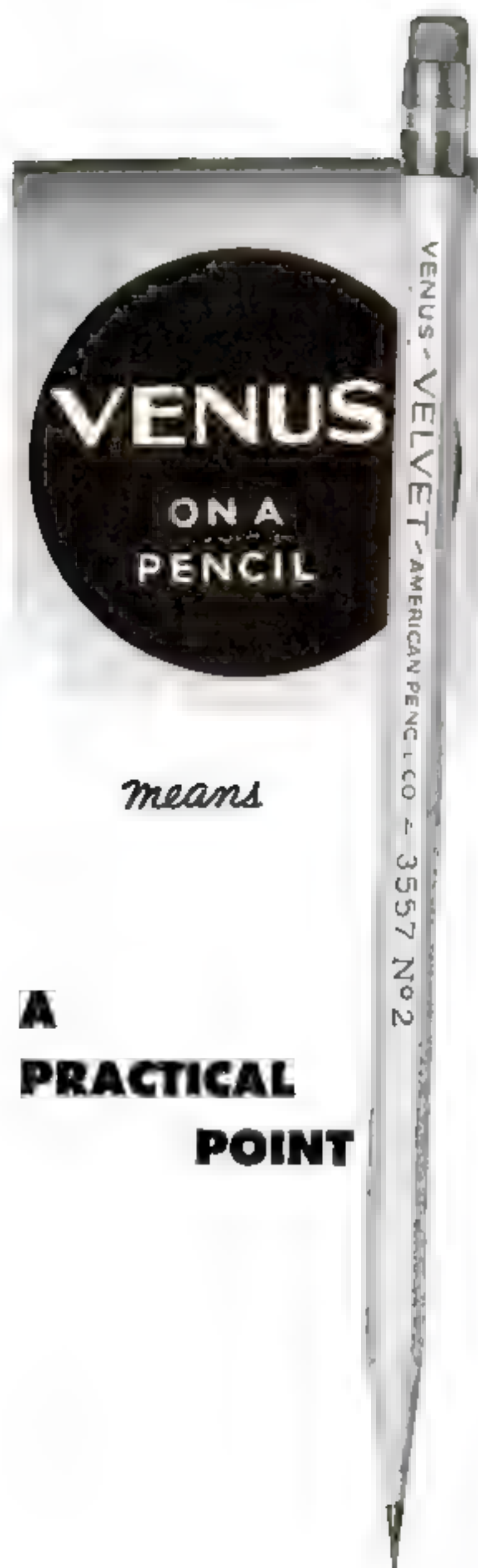


What does he do when he's on leave?
He dates a WAC or WAVE.
It makes you proud to look at them
So confident—so brave.
His uniform is faultless
And you'll pardon us if we boast
That he probably wears Westminsters
Sold in stores from coast to coast.



Westminster
AMERICA'S FINER SOCKS

CONTINUED ON NEXT PAGE



means

A PRACTICAL POINT

A PRACTICAL point is one that lasts. That's why it's practical to use VENUS-VELVET pencils. Their points last longer.

VENUS VELVET PENCILS

AMERICAN PENCIL CO., NEW YORK
In Canada: Venus Pencil Company, Ltd., Toronto

AMERICA'S WORLD PURPOSE (continued)

Man. But the vital points at which the analogy breaks down had already begun to appear. "Reasonable" conduct is conduct which assumes a certain equality among men; it is more difficult to defend an assumption of equality among states which differ so extremely. Among persons, because of equality, comparison is an argument for rights: "If you have a right to a job or a vote, so have I." Among states, comparisons are not alone impertinent, but for the most part plain nonsense. Brazil's possession of a seacoast is no argument for Bolivia's right to a seacoast. In fact, while for domestic law there is something like a standard man, for the world community there is no such thing as a standard state.

Any law has to know what the units are to which it is ascribing "rights" and to whom it is doing "justice." But what are the units for international law? Is the British Empire one state or a dozen? Is the Soviet Union one or 16? Is the U.S. one or 48? The boundary of an animal or a man has an organic fixity. But the meltings and splittings of states are commonplaces of world history. The unit of law is elusive, variable, plastic.

From this it follows that the chief troubles of international society begin at a prelaw level, *i.e.*, in setting up the units with which law has to work. India, for example, objects to continuing as a 400,000,000 abdomen for a 45,000,000 British head-and-chest. Where will you find legal precedents to deal with such an issue? Surely not within domestic law?

Hence these issues, with all others involving the existence of states and their "vital interests," are set aside as "nonjustifiable"—out of the reach of law. But since it is just these issues which are the war-breeder, international law, when these are omitted, sinks to the level of a mere lubricant.

It is necessary to recognize the deep difficulties in which international law is caught. It is also necessary to recognize what the alternative is, if there can be no authoritative law for nations. It is that the order among nations rests on the *I-will* of the strongest power. In this case, aggression could not be called unjust; it could only be called, in the present case, bad judgment. I press the alternative: you either exonerate the Nazi-Japanese outburst on every ethical ground, or else you hold that even in these nonjustifiable problems of existence, status and boundary, there is a discoverable reason, a discoverable right-and-wrong, and therefore a basis for law. For law is the coinage of the ethical sense of mankind.

There can be no doubt of the decision. We cannot believe in the finality of any appeal to an arbitrary *I-will*. Those who profess to believe in it, when it comes to an appeal to their own people to fight, always trump up an ethical motive. There is a deeper reason: law is the way the human mind works. No human act can reject the question, "Why did you do it?" as impertinent. If states are to grow or decline, or to combine or divide, still more there must be assignable reasons. And if there are reasons, there is the raw material of law.

Hence the demand for a working international law arises with new vigor after every setback. Even in the absence of all institutions, the will-to-law operates on national behavior: it is seen in the concern for the "opinion of mankind," in the groping toward defensible practice, in the very hypocrisies of statesmen who dare not avow themselves naked of justification. It is obligatory upon us to revitalize its foundations. Just because its prestige is at low ebb, it becomes all the more an object of positive policy to promote the necessary new thinking and plan the appropriate institutions.

We cannot begin by setting up a world government with legislative and executive departments, armed with force. For even if there could be found men of sufficient caliber to run the world—which I doubt—and a firm public opinion to back them, it puts things in the wrong order to begin enforcing a justice not yet thought out in principle. The first institution should therefore be a world court, capable of applying such law as exists and a commission auxiliary to that court for working out a code, not of specific laws, but of fundamental principles of international law. We can reach principles here long before we can reach a finished code.

The important thing is to begin. For to have any institution devoted to this end is to make visible the resolve of nations to live under law and to set up the first law: "the law that there shall be law."

Law has to grow tough with time and application. It needs this far more than it needs force. As it becomes a working law, it bears directly on security. For as respect for law is effectively present in all men and nations, the habit of referring to law constitutes an unwritten alliance of every nation so committed with every other such nation. There would be a reasonable relaxing of military security

WHEN YOUR STOMACH



When youngsters abuse their stomachs, don't make matters worse by giving overdoses of antacids, or harsh physics!

Try giving gentle, soothing PEPTO-BISMOL, to help relieve stomach upsets caused by over-indulgence, change of diet, nervous, hasty eating, or bad combinations of food. It's pleasant to the taste! At all drug stores. If you do not get prompt relief, consult your physician.

Pepto-Bismol

By the Makers of "Unquench" (Norwich)

Is it worth 2¢

to keep awake on your job?

One NoDoz Awakeners tablet costs less than 2¢. Use NoDoz Awakeners to help keep awake... alert... to think better, work better. Harmless as coffee.

For trial-size package, send 10¢ to NoDoz Awakeners, Dept. F-12, Irvine Tower, Oakland 12, California. Offer expires May 8, '44.



On Feet For Over 30 Years

Allen's Foot-Ease has been bringing relief and comfort to tired, burning feet for over 30 years. Sprinkle it on your feet and into your shoes, and enjoy the refreshing comfort it brings while you stand long hours at your work. Even stiff, heavy, new or tight-fitting shoes lose their terror when you use Allen's Foot-Ease. But good old Allen's does even more. It acts to absorb excessive perspiration and prevents offensive foot odors. Helps keep feet, socks and stockings dry and sweet. For real foot comfort, remember it's Allen's Foot-Ease you want. At your druggist.

So WRIGHT set VINCO riding herd on 2200 horses!

WHILE life with Vinco, as our Chief Engineer once said, has been one Cyclone after another for nearly 15 years, we got the gran'-daddy of all thrills the day the Wright engineers called us in and said . . . "we're starting on another Cyclone . . . this time 2200 horsepower!"

You see, Vinco has had the privilege of working with Wright since the days when Byrd was circling the Pole and Lindbergh was crossing the Atlantic on the wings of the Whirlwind. We've seen the record-setting Whirlwind engine grow into the globe-shrinking Cyclone. And in this war we've watched the Flying Fortresses smash Nazi war plants . . . Doolittle's B-25's blast Tokio . . . the Grumman Avenger "scratch" Jap flat-tops at Midway . . . watched the M-4 tanks and the M-7 tank destroyers at El Alamein, and Douglas, Lockheed, Vultee, Martin planes in Russia, Africa, Italy, Germany . . . all Cyclone-powered. And mister, you can imagine the thrill in having even a finger in that pie!

But there was altogether a *new* thrill in this new Cyclone. Partly because it brought victory a little closer . . . for in its 2200 h. p. we saw the super-bomber that could fly non-stop to Berlin and back . . . (or to Tokio!) . . . with half a freight-carful of bombs! . . . and the superfighter with more speed, wider range, heavier armor, bigger guns. And partly because it presented one of the most fascinating of all problems in engineering!

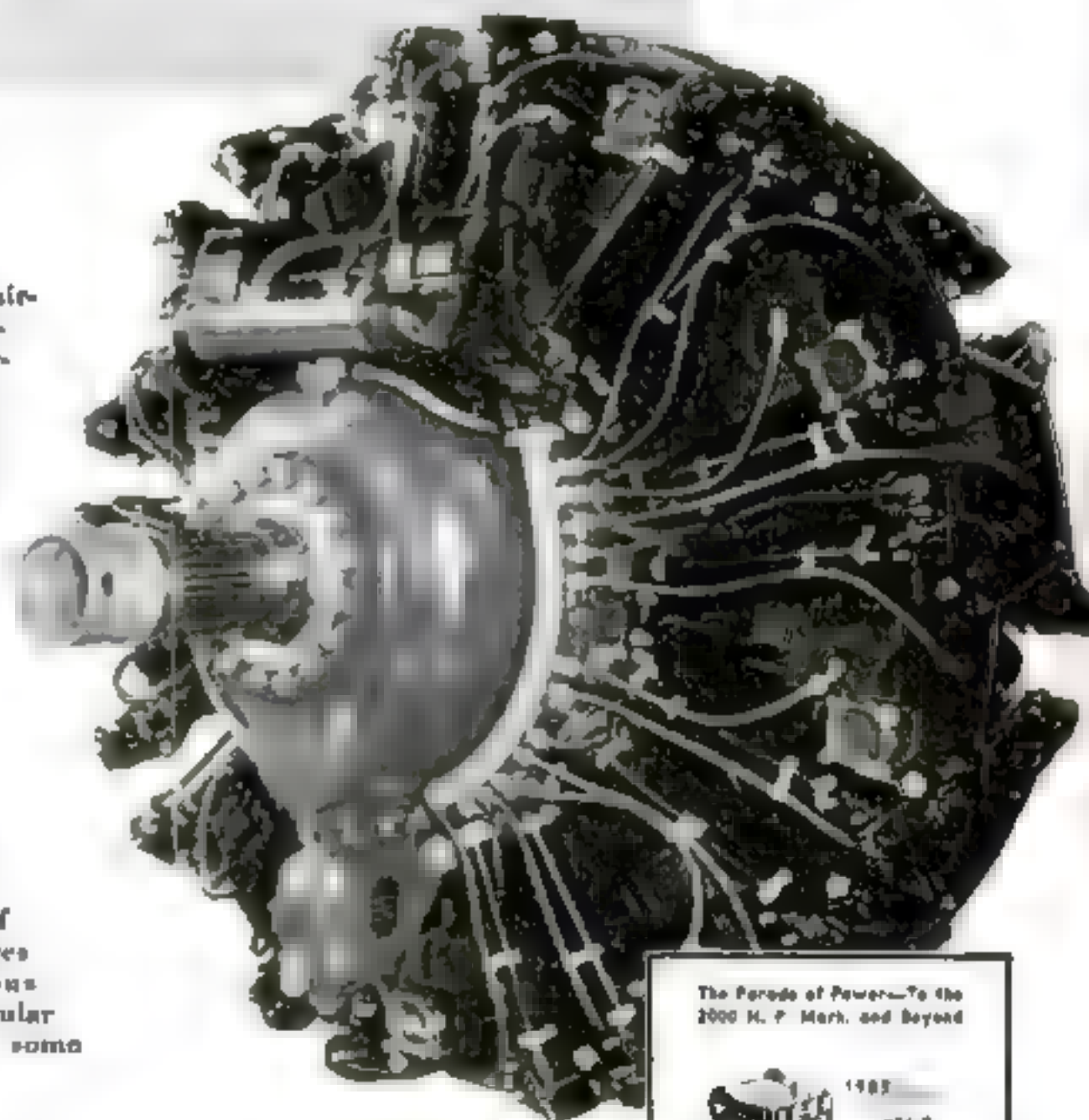
Ever since the historic little 12 h. p. engine at Kitty Hawk, the Wright tradition has been one of ever-increasing power. This new Cyclone was built to produce 2200 h. p. in the same 55-inch diameter as the original 525 h. p. Cyclone of 1927! Now when you step up the power of an engine, you have to step up the perfection of your manufacturing. Tolerances have to be closer. Machining, grinding, finishing, polishing, all have to be finer. The slightest imperfections may lose power . . . and that may lose the plane! And especially vital are the gears, because . . . well, you might call them the "gates" through which all the horsepower developed in the mighty cylinders has to pass. If the "gates" don't work 100%, some of the "horses" may get loose.

This is no time for detail. Enough to say the Wright engineers set us "riding herd" on those 2200 racing horses. And it has been Vinco's privilege to help insure the millionths-of-an-inch precision of this great, war-shortening engine. Vinco makes the gages and arbors for all the critical gears and splines on this mighty Cyclone. And scattered through the Wright plants are thousands of Vinco gages of all types, rolling fixtures and master gears, index fixtures, Vinco's Optical Dividing Head and Vinco's Involute Checker, all watching for the slightest departure from perfection.

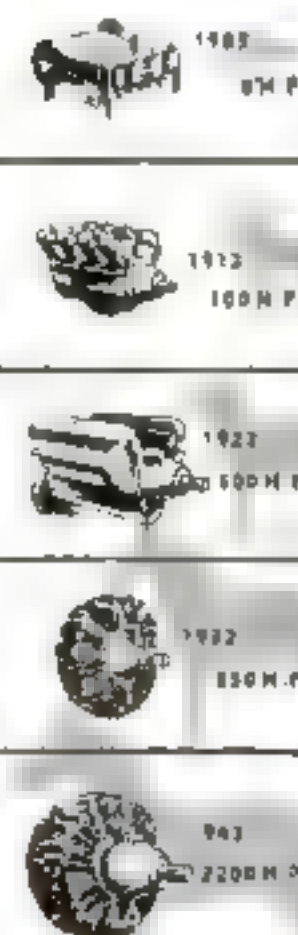
The way Wright has met America's power needs in the air is one of the miracles of this war, and Vinco, from top to bottom, is deeply grateful for the privilege of working with the Wright organization.



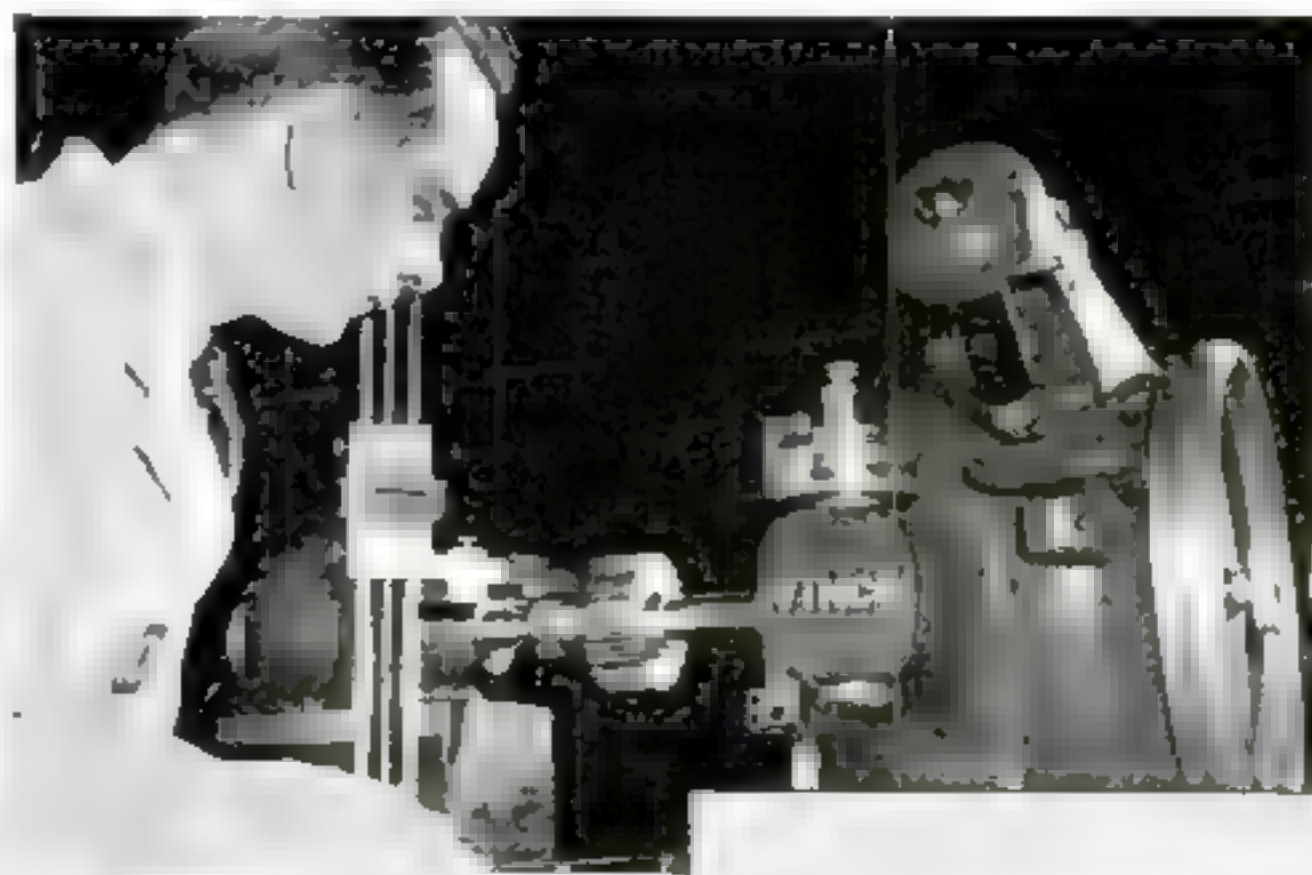
This amazing new 18-cylinder, air-cooled, super-charged, radial Cyclone engine is one of the never-to-be-forgotten triumphs of America's war-time production. Developing 2200 h.p., it has given wings to America's two giants of the skies, the Martin "Mars" (above, upper) and the Lockheed "Constellation" (above, lower), and will power the new B-29 super-bombers. Matching a freight locomotive in sheer, brute power, the new Cyclone will carry more destruction aloft and carry it farther than has ever been possible before! With 9,000 parts, many calling for tolerances measured in millionths of an inch, the production of this 2200 h.p. Cyclone requires more than 80,000 operations and the use of many spectacular machine tools of special design, some of them over 200 feet long.



The Parade of Power—To the 2000 H. P. Mark and Beyond



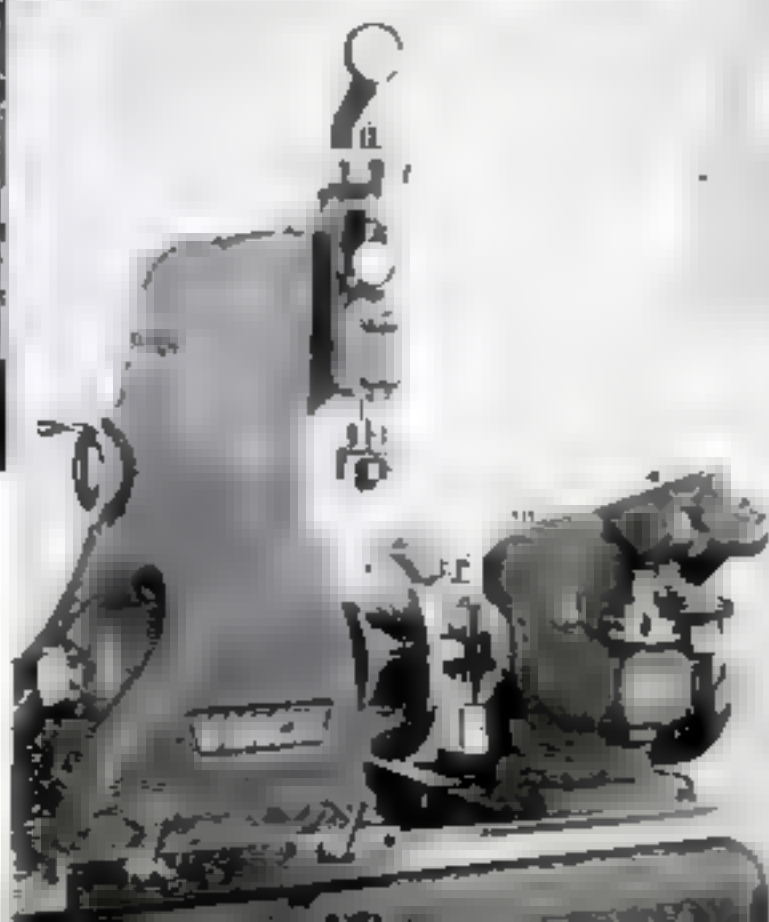
The Vinco Optical Dividing Head is used here to check the spacing of the teeth in a gear in the Cyclone engine. The precision spacing of gear teeth is vital to the life of the gear itself and to its efficient delivery of power to the propeller.



Copyright, 1944, Vinco Corporation

The famous Vinco Optical Master Inspection Dividing Head measures spacing in gears, splines, index plates, camshafts, etc. to within 2-1,296,000th parts of the circle.

The Wright plants have the most complete and thorough-going inspection system in America and Vinco gages and fixtures of all types play an important part in the checking of each step in manufacture. Only by ultra precision can such concentrated power be achieved.



MILLIONTHS OF AN INCH
FOR SALE BY
VINCO
CHICAGO DETROIT NEW YORK

just so far as the spirit of legality gained visible form, prestige and general effect. It is a matter of human pride to shake free from the mean presumption that a reasonableness native to mankind must always be handed out by an irresistible military coalition.

So long as men must stand on the defensive, free institutions can neither thrive at home nor spread abroad. For defense in terms of modern war implies a total organization of the resources of the state about a highly centralized executive. We must choose between complete safety and freedom. It lies near to the American genius to take the risk for freedom and to justify its faith by assuming leadership in setting up a working international law.

Why It Is America's move

One difference between this war and the last is that this time there is a whole planet to be put into order. We are justly humbled by the immensity of the task. But there are two propitious circumstances at this moment of history. International law has today a factual and emotional support which it formerly lacked. The volume of common goods and ideas among all peoples, the common techniques of civilization, and the common enterprises of the family of nations have given substance to the frame within which all law operates. Clashes of interest continue to exist. But the question of aggressive self-assertion for any power has become altered. It is no longer What can I gain by asserting my separate will? but What is the *net* gain if, in doing so, I break down the existing frame?

The other propitious circumstance is an ingredient of the American spirit itself, a peculiar ability to take the other man's point of view. Wherever I have traveled I have found Americans at home in foreign parts. Merchants, consuls, teachers, engineers, dentists or scientists, they have friends among the people with whom they are living. I mean *friends*. The reason for this seems to me much the same in all cases. Two things go to make a good teacher: a knowledge of his subject and a knowledge of the difficulties his pupil is going to have with that subject. Everywhere abroad it is the American dentist who is in demand. Two things go to make a good dentist: a knowledge of his art and a knowledge of the susceptibilities of his patient. All of them, besides being good in their specialty, need to be practical psychologists to the extent of *knowing where it is going to hurt!* This means doing your job and at the same time taking the other man's point of view.

Possibly a little more of this exceedingly simple quality can make the chief turn required in our diplomacy today. It is well adapted to make the difference between seeing the point of "interpenetrating purposes," and cherishing under the laudatory name of realism the illusion that the normal and necessary relation between national wills is at bottom competitive. In my opinion the most successful ventures of American statecraft, from the Monroe Doctrine onward, have come from the exercise of this faculty, which is the essence of all faith in man, and also the point at which the spirit of religion touches the spirit of world politics. It is the necessary backing for any extension of human rights or liberties we may promote. And it has the advantage of calling out all the native shrewdness, factuality and inventiveness we can muster; for he who thinks for two has a bigger job than he who thinks for himself alone. And he is the only genuine realist; for he alone sees things as they are.

In politics all motives are mixed. Our record in the Philippines has been no pure poem of political altruism. But it has had enough of this saving human quality to make it outstanding in the treatment of dependencies. That experience gives us one base from which to meet the inescapable problem of transforming empire. That problem, thorny as it is, is a composite of elements we now have in hand—economy, law, human rights, world stability. These elements are interdependent. But the key which unlocks them is a direct corollary of the human quality we are speaking of and a condition of all interpenetration of purpose: As no man can be the property of any other man, so no nation can be the property of any other nation. The "our owns" are out.

Until a little while ago the world as I have seen it has felt hopeful of America as of no other power, not for its wealth and technology alone, but for its capacity for disinterested survey, an element of principle, a willingness to pitch in and help and a fresh look at things. On this last point our relative ignorance may be an asset. For there is a difference between ignorance and stupidity: ignorance is remediable and ignorance of old tangles may allow a new grasp of the essentials on which present issues turn.

What we require now is to turn our native characteristics and qualities of temperament into a positive policy and keep our present appointment with destiny.



"I'm yours alone," dainty Miss Dixie Cup confides to the handsome Petty Officer.
"No other lips shall ever touch mine."

"That's the way it is with all us Dixies
...millions and millions of us...each
true to one person—and only one."

"It's lucky there are so many of us. You see Uncle Sam expects us to look after all the boys in service—in camp here at home... out at sea... up at the front... even on bombing trips with the flyers."

"Lots of us are around the busy war plants, too... helping to feed the workers... and protecting their health."

"But let's talk about you and me. Always remember I keep my kisses just for you. I never, never share them with another."



DIXIE CUPS

DRINKING CUPS AND FOOD CONTAINERS



The paper cup has truly become a war-time necessity. Used but once and thrown away it breaks the chain of possible contagion from mouth contact with anything that has touched the lips of others.

HEAD OF THE BOURBON FAMILY



One taste will tell you why

Even in plentiful peacetimes, men prized Old Grand-Dad for its sunny warmth and rare taste. Now the distillery that produced this glorious whiskey is engaged in production of alcohol for war purposes. And Old Grand-Dad is even more treasured, as stocks laid down before the war are being conserved. We are trying to distribute these ripe and mellow stocks fairly. So when you find your dealer sold out of Old Grand-Dad please call again when he has had a chance to replenish his supply.

National Distillers Products Corporation, New York





Washable Blue—far
children, hospitals, etc.



Tulip Purple—adds
charm to your letters.



Forest Green—it's easy
on the eyes.



Hunting Red—fine for
contrast and ledgers.



Beaver Brown—new
shade by Carter's.



Raven Black—inspires
fine reproduction.



American Blue—
popular everywhere.



Midnight Blue-Black—
best all-purpose ink



SAFE!

for your precious fountain pen!

Carter's Ink has 9 "Dyes"

CARTER'S INK is non-corrosive—gentle as a kitten to your fountain pen. Laboratory tests prove it the safest ink you can use in fountain pens—or with steel pens.

Carter's dries fast—just a few words behind your pen. It's deep-toned—the kittens show you the variety of colors.

Smooth-flowing, from the instant your pen touches the paper.

Remember Carter's kittens when you buy fountain pen ink.

CARTER'S INK
Finest for Fountain Pens
THE CARTER'S INK COMPANY, 87 STUY, MASS

Ask for Carter's—the ink that's set the pace for 86 years.

Personalize your writing, choose the color that suits you best.

Carter's Oval Bottle—15¢
9 colors, 4 V... Mail
Inks. For Office Use:
Carter's Fountain Pen
Inks in gal. ozs., quarts,
pints, 25¢ size.

Carter's Cube Bottle—10¢
9 colors—this is Midnight
Black, one of Carter's 4
V... Mail Cubes. Car-
ter's Cubes are America's
most popular 10¢ inks.



EYES BRIGHT WITH JUNGLE FIERCENESS AND BODY TENSE WITH STALKING INSTINCT, RAJPUR, THE BRONX TIGER CUB, CROSSES THRESHOLD FROM KITCHEN TO LIVING ROOM

TIGER CUBS

A lion-keeper's wife raises three
Bronx Zoo babies in her own home

Jenny, a tigress at the New York Zoological Park in the Bronx, had three cubs last February. They weighed 2½ pounds each, were 20 inches long from nose to tail tip and, quite naturally, were helpless as kittens. Because Bengal tigers in captivity often refuse to nurse their young, Mrs. Fred Martini, a lion-keeper's wife, took the cubs home and raised them.

The job has kept her very busy. Fed every three hours, the cubs announce mealtime with loud squalls, which grow louder as they grow hungrier. They have

not learned to lap from a saucer and each has to be fed from a bottle. When she is not feeding them, Mrs. Martini is cleaning them, or putting drops in their eyes, or playing with them. Though quite tame and playful, the cubs' long claws require her to wear leather gloves when handling them. In a month or so the cubs will go on a meat diet and get too rough for a household. Then they go back to the zoo, each one worth about \$900. Mrs. Martini, who once raised a lion cub at home, will be sorry to see them leave.



That's how fast you find your Passes, Driver's License, Selective Service Cards, Hotel Credit Cards and your currency when you have an Amity Removable Pass Case.



Prewar quality and value
...\$3.50 up.

FOR A HAPPY FUTURE SOON...
INVEST IN WAR BONDS TODAY!



AMITY LEATHER PRODUCTS COMPANY • WEST BEND, WISCONSIN

You'll appreciate its quality

DON Q RUM

Only the finest ingredients, grown on the fertile estates of the Serralles Family, are used in producing Don Q Rum. Its quality is quickly recognized in cocktails or in rum-and-soda.

Product of DESTILERIA SERRALLES, INC., Ponce, Puerto Rico, U. S. A.
SOLE U.S. DISTRIBUTORS, Schieffelin & Co., NEW YORK CITY • IMPORTERS SINCE 1794

Tiger Cubs (CONTINUED)



In repose Dacca lies majestically outside the play pen on the kitchen floor. The cubs spend most of their time in the sunny kitchen but are allowed run of the house and have become partly housebroken. Dacca, the female, is daintier than her brothers.





Getting weighed (below) Rajpur hardly fits into the scales. Here, at five weeks, the cubs have gained $6\frac{1}{2}$ pounds over their birth weight. Meals still consist of milk, liver extract and vitamins. The first attempt to get cubs to eat meat made them sick.



RELAX IN THE COMPANY OF

THE GREAT GILDERSLEEVE
(Harold Peary)
and **ELAINE RILEY**
SEE HIM IN RKO • RADIO'S
COMEDY HIT
"Gildersleeve's Ghost"

RELAX IN THE COMPANY OF

Blackstone Cigar
the choice of
successful men

**NEW SIZES!
NEW SHAPES!
NEW PLEASURE!**

STEP UP, GENTLEMEN, and try the new Blackstone cigars! Streamlined for modern smokers. Filled from tip to tip, as always, with the finest and costliest Havana tobacco. Extremely mild, yet satisfying. Size and shape for every taste: Perfecto Extra, 3 for 50¢; Cabinet Extra, 15¢; Kings, 15¢; Panetela De Luxe, 12¢; Bantam, 2 for 15¢.

Thousands of Blackstone Cigars are going to the armed forces. So your dealer may not always have your favorite size. Please be patient. Keep asking for Blackstone. A. M. T. & Bond, Inc., Newark, N. J.



IODENT

SAFELY REMOVES

Smoke
Smudge

Choice of two textures—safety guaranteed—Made by a Dentist, Bears Good House-keeping Seal. Gently cleans away even tobacco smudges. Restores natural enamel lustre. Delightful, refreshing flavor. Use Iodent and you'll smile with confidence.

which IODENT do you choose?



Orange Blossom

Still the finest
in ringcraft.

TRADE MANUFACTURING COMPANY, DETROIT 8, MICHIGAN



Like any curious kitten, Rajpur investigates closet and is confronted with supply of milk. After looking, he reached up, gently knocked a few cans over. Mrs. Martini has had to remove ash trays and such objects from low tables because cubs knock them off. She also has had to take down drapes before cubs tore them to shreds.

Don't Shoot Your Gas-Pump-Man!

He's a good guy! Sure . . . he'd hate to hear some careless driver smashed your car . . . you helpless . . . driving half-blind from Windshield Smear!

But it's *your* car! And *your* worry!

So why blame your good service man for not reminding you to let him replace your dulled windshield wiper blades . . . and your tired, twisted wiper arms . . . all now several years too old!

Once you remind him he'll proudly—and quickly—fit your car . . . with keen new ANCO RAIN-MASTER Blades and Arms . . . Sturdy . . . Good looking . . . Exclusive patented features—Used on our fighting Tanks and Trucks and Ships and Bombers too. Original equipment on many models of high-grade cars. Ready for you at nearly all good service stops. Because RAIN-MASTERS clean quicker, clean cleaner . . . last longer!

Be safer! Make better time in storms! Avoid costly smashups! Get RAIN-MASTER VISION CONTROL . . . next time you buy gas. Costs less than a simple fender repair.



Exclusive patented arm-spring design . . . holds blade always true and snug against the glass—for cleanest wipe!

for safer driving . . . install new Anco

RAIN-MASTER

TRADE MARK REG. U. S. PAT. OFF.

WINDSHIELD WIPER

Blades and Arms

Used on our fighting tanks and trucks and ships and bombers too.

THE ANDERSON COMPANY

Indianapolis, Ind. 46204
Created since 1918 of accepted automotive products

BUY ^{STILL} _{MORE} WAR BONDS



BRIGHT STAR BATTERY CO., CLIFTON, NEW JERSEY



THREE FEATHERS

PLEASE NOTE:

Our distilleries are now producing alcohol for war use by the government. No whiskey has been made since October, 1942. The base whiskeys you now enjoy in Three Feathers blended whiskey were drawn from our ever-diminishing inventories.

BUY U. S. WAR BONDS TODAY

Tomorrow command your own CHRIS-CRAFT



Coming — New De Luxe Enclosed Chris-Craft Cruiser for postwar delivery . . . Today, we're 100% on war work.

Keep Your Spirits High ☆ ☆ Speed Victory



Algonac, Mich.



Cadillac, Mich.



Holland, Mich.

CHRIS-CRAFT

FOR PRODUCTION "WELL DONE"

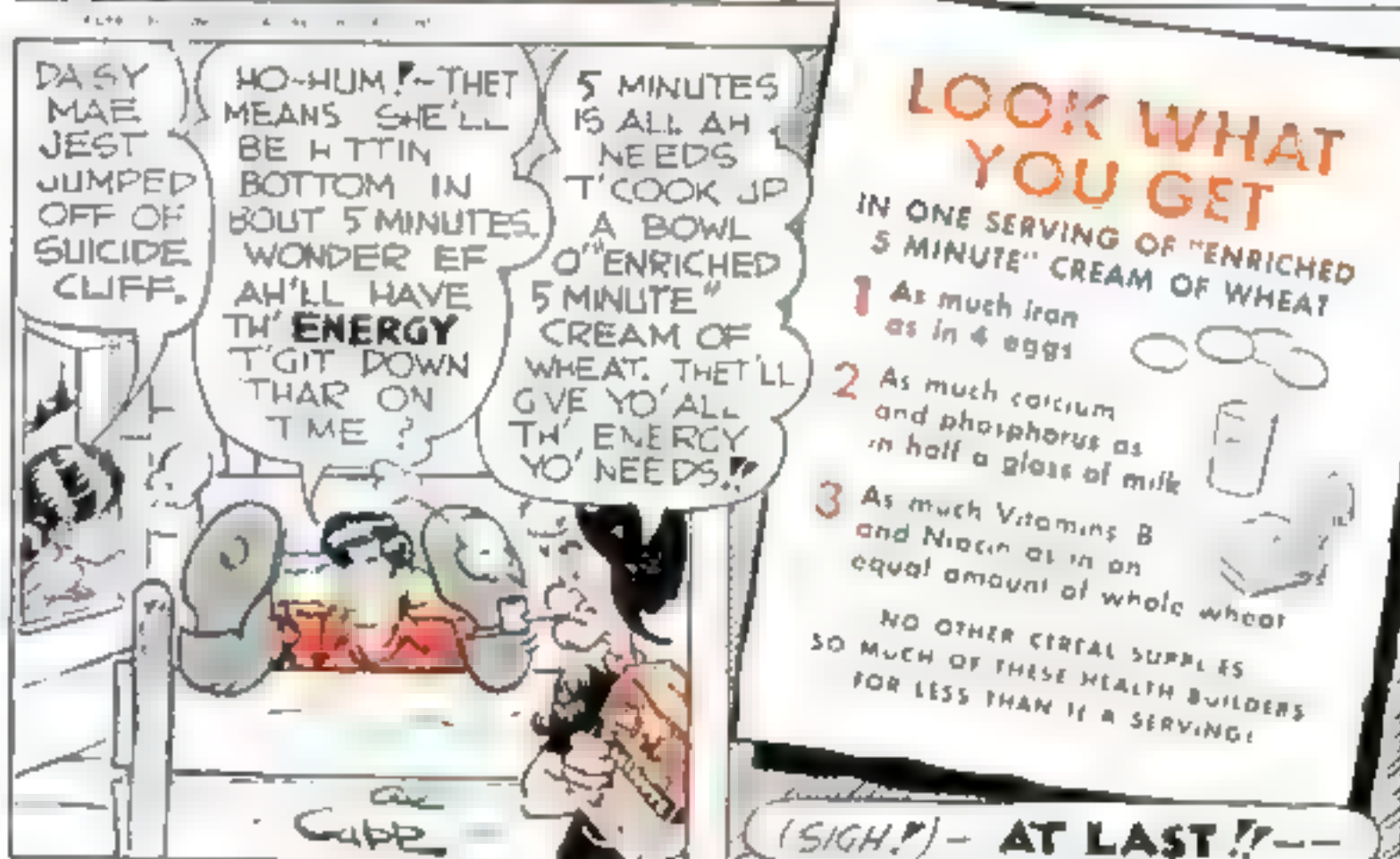
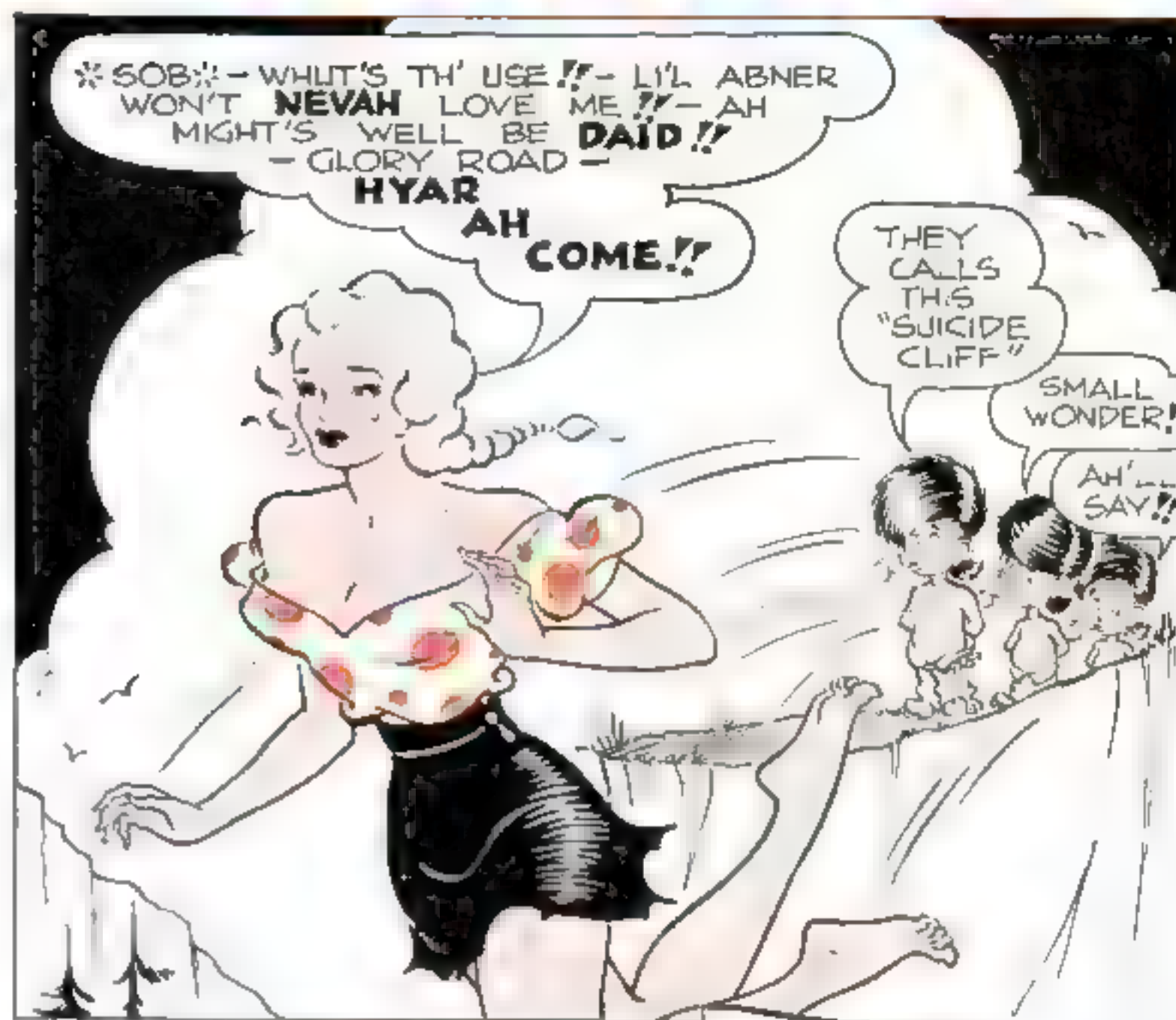
CHRIS-CRAFT CORPORATION, ALGONAC, MICH. ★ WORLD'S LARGEST BUILDERS OF MOTOR BOATS

A black and white photograph of a woman wearing a headscarf, leaning over a table and working on a piece of fabric or paper. She is looking down at her work with concentration. The background is slightly blurred, showing some indistinct shapes and textures.

A black and white photograph of a woman with dark, curly hair, wearing a dark, high-necked dress, holding a baby wrapped in a light-colored cloth. She is looking down at the baby with a gentle expression.

A black and white photograph of a woman in a light-colored dress sitting at a table, looking down at a book or document. On the table are three small, dark, rectangular objects, each with a label. The labels read "RANGLER", "RANGARI", and "DACCAR". The woman is looking at the "RANGLER" object.

LIL' ABNER by AL CAPP





JANEY CALKINS, 18, OF BOSTON, MASS., IS MAIL CLERK IN DOUGLAS RESEARCH LAB



EMILY CRITTENDEN, 20, OF LOS ANGELES, DELIVERS EMERGENCY PARTS TO THE ASSEMBLY LINE

LAVONNE MULLENGER, 19, OF DENISON, IOWA, TOOK SECOND PLACE IN POLL. SHE OPERATES CHECKWRITING AND CALCULATING MACHINE, IS SISTER OF MOVIE ACTRESS DONNA REED





Louise Radcliffe, Jr., of Santa Monica, Calif., is the tallest—5 ft. 7 in.—of the Sweethearts. She expedites delivery of parts to grounded planes.



Virginia Lonsdale, 19, of Amarillo, Texas, is wife of an MP now in Italy. A warehouse clerk, she packs parts for bomber assembly line.



Evelynne Johnson, 20, of Joplin, Mo., elected Queen of Sweethearts, is 5 ft. 4 in., weighs 114 lb.

Life Goes to a War Plant Beauty Dance

Douglas Aircraft employes choose prettiest of their 26,000 women workers to be their Sweetheart Queen

The workers at Douglas Aircraft in Santa Monica, Calif., are certain that the prettiest girls to be found in the U. S., outside a movie lot, are working right in their plant. To settle all arguments about who is the loveliest of them all, Douglas holds an annual "Sweetheart Contest." This year the winner was Evelynne Johnson who works on a bomber project. She was crowned "Queen of Douglas Sweethearts" at a dance given recently at the Riviera Country Club. Evelynne will reign for a year.

For weeks before the dance each department was busy selecting its candidate for

the title of queen. Out of 26,000 women workers, 42 were chosen to represent their various departments. These 42 paraded at seven lunch time proms and their numbers were whittled down, by popular applause, to the seven finalists shown in these pictures. The girls had to wear their working clothes during the campaign and the voting was complicated by the fact that neither sweaters nor strapless evening gowns are considered proper plant attire. Results show, however, that Douglas employes have discerning eyes. Their taste runs to girls who are small but well-broadened.

A beauty and her boss, Virginia Lonsdale and Supervisor G. D. Combs, dance at ball. Virginia's division picked and paid for dress.



Dorothy Mentz, 21, of Faribault, Minn., one of finalists, works in salvaged-stock department, is engaged to boy in same department.



Queen Evelynne dances with fellow-worker Jack Ecks. She won contest by plurality of 200 votes.



For Distinguished Service

TO YOUR COUNTRY—BUY U.S. WAR BONDS

HONOURS OF The Royal Scots (Captain)

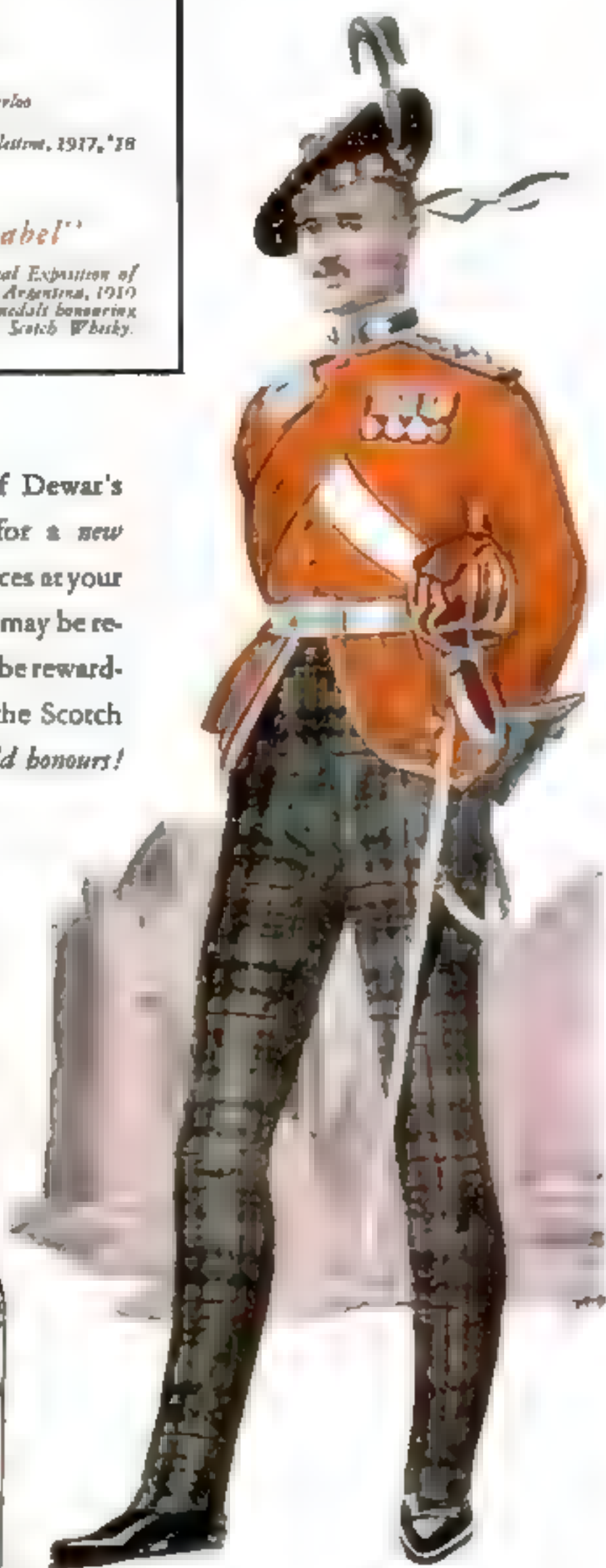
Tangier, 1680—Blenheim—Waterloo
Ava—Arima—Sevastopol
Ypres, 1915, '17, '18—Somme, 1916, '18—Palestine, 1917, '18

HONOURS OF DEWAR'S "White Label"



Award of the International Exposition of
Agriculture, Buenos Aires, Argentina, 1910
one of more than 60 medals honoring
Dewar's for excellence in Scotch Whisky.

SECURING a supply of Dewar's
these days often calls for a new
strategy. Several reconnaissances at your
favorite Scotch Headquarters may be re-
quired. But your patience will be reward-
ed when you proudly serve the Scotch
that has been awarded 60 world honours!



Victoria Vat

12

years old

also known as No Plus Ultra



White Label 8 years old

COMMAND DEWAR'S...AND BE

"AT EASE"

Dewar's
"White Label"
and "Victoria Vat"

THE MEDAL SCOTCH OF THE WORLD



Both 86.8 Proof. BLENDED SCOTCH WHISKY. © 1943, Schenley Import Corp., N. Y.

Douglas Sweetheart Ball (continued)



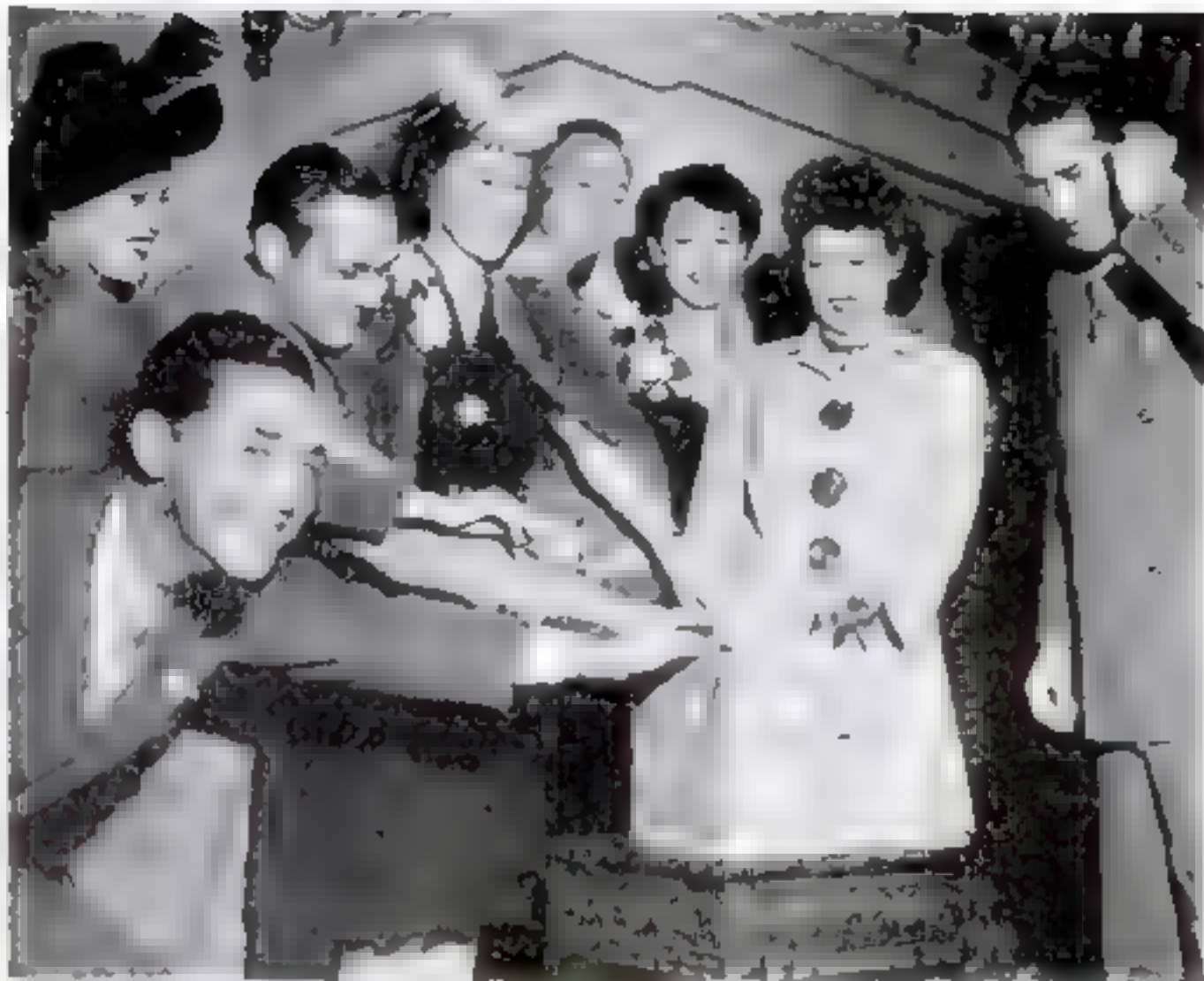
The seven sweethearts had their pictures displayed on country-club bulletin boards. Before the dance, each department tried to swing last-minute votes to its favorite.



Flushed and excited before the final balloting, Emily Crattenden puts on fresh powder and lipstick. In the plant she usually wears white shirtwaist and dark skirts.



Last-minute primping was done in club room reserved for the contestants. Although each of girls hoped she would be queen, they hoped each other would finish runner-up.



The votes were cast by dropping stubs with candidates' numbers into the box at ball. Tickets cost \$1.65, counted for one vote each. Proceeds pay for employe recreation.



The election committee counts the votes as the seven would-be queens look on. Of the 1,633 votes cast, Evelynne Johnson got 469. Losers became her ladies in waiting.



The Queen is crowned with a diadem of hearts and presented with statuette proclaiming her Queen for 1944. Last year's queen has left Douglas to become a mother.

Here's how your car FEELS...



...after **MARFAK** chassis lubrication!

Car drive like a tank? Time for MARFAK chassis lubrication -- Texaco's tough, long-wearing lubricant that silences, softens and soothes the crankiest chassis. MARFAK is applied by chart, never by chance. Your car gets a careful check-up, too -- every point of wear, every point of adjustment. Ask your Texaco Dealer to give your car that "MARFAK feeling" -- tomorrow!



TUNE IN: FRED ALLEN every Sunday night. See your local newspaper for time and station.

Along the Romantic Gulf Coast

it's Crabmeat Stew at The White House in Biloxi

RECIPE

for Gulf Coast crabmeat stew as served at The White House

For 5 servings, sauté two medium-sized chopped onions in butter or butter substitute with one teaspoon parsley.

Add three medium-sized tomatoes, quartered; two and a half cups of cream or milk and a quarter cup of stock or beef bouillon, one tablespoon Worcestershire sauce, three dashes tabasco sauce, black pepper and salt to taste.

Add one pound of crabmeat. Bring to boiling point. Serve immediately with melba toast.

NATIONALLY FAMOUS FOR GOOD TASTE



You need only try Goebel Beer once to know you've met the good taste that won America!

GOEBEL BEER

Available in 7 oz., 12 oz., and 32 oz. bottles. Goebel Brewing Co., Detroit 7, Michigan

ACTORS' FACES are extra sensitive

"REMOVING MAKE-UP keeps my skin very tender and sensitive," says C. Aubrey Smith. "So it was certainly a pleasure to discover Williams Shaving Cream. It's most soothing. It leaves my skin feeling pliant. Let's me shave clearly with comfort."



—that's why **C. AUBREY SMITH** shaves with soothing **WILLIAMS**

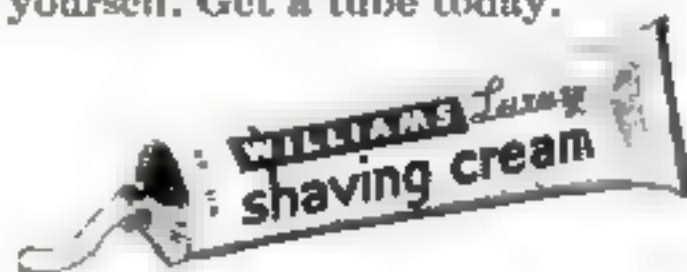
If you had to wear heavy make-up every day, you'd soon realize why actors' faces are so sensitive to irritants in shaving cream.

A truly mild shaving cream can be made only of quality ingredients, combined exactly. That is how Williams is made—with the skill of over 100 years' experience.

Its rich, bland ingredients are blended as carefully as a prescrip-

tion. Pure-white, creamy-lathering —Williams lets you shave closely with comfort, without irritating the face.

Try Williams Shaving Cream for yourself. Get a tube today.



PICTURES TO THE EDITORS

JOAN'S JUMP

Joan Winfield's light foot doesn't appear to disturb her dog. Actually this is not a trick shot but an accident of speed photography. Miss Winfield's pretty leap

was shot at 1/32,000 of a second by Warner Brothers' Buddy Langworth. **HELEN MORGAN** Los Angeles, Calif.



HEAD UNDER HEELS

Blrs:

A huge industrial lifting magnet, attracting Trixie Firechik's skates as she circled the rink, has swept her right off her feet in this stunt staged at the Mil-

waukee plant of Dings Magnetic Separator Co.

RUSSELL T. GRAY Chicago, Ill.



CONTRIBUTIONS: Minimum rates for all rights, including resale and reuse \$5 per photograph. Amateur photographers are welcome as contributors but their work must compete with professionals on an equal basis and will be judged (and paid for) as such. Unsolicited contributions however, whether professional or amateur, will be neither acknowledged nor returned unless accompanied by adequate postage, packing and directions. LIFE will not be responsible for safe handling of same either in its office or in transit. Payment will be made only on approval and publication. Address all correspondence about contributions to **CONTRIBUTIONS EDITOR, LIFE Magazine, TIME & LIFE Building, Rockefeller Center, New York 20, N. Y.**

UGLY SCRATCHES?
SHINE 'EM AWAY!

**MIRACLE POLISH
MAKES FURNITURE
LOOK LIKE NEW!**

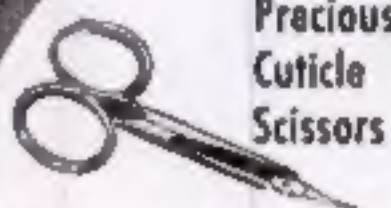
Just spread Old English on your furniture. You'll be surprised at the way ugly scratches disappear instantly. You'll thrill to gloriously new-looking furniture. At leading stores 25¢.



**Old English
Scratch Removing
POLISH**

Made by the Makers
of Old English Wax

25¢



**Precious
Cuticle
Scissors**

This La Cross implement is precious. If you own one, treasure it. For the duration it may be difficult to replace. At the present time, the manufacture of manicure implements is sharply curtailed.

La Cross

For more than four decades
America's finest Manicure Implements
SCHNEFEL BAGS, CORP., 630 FIFTH AVE., NEW YORK

INSURE FOR

THE FUTURE

Marlin

**HIGH SPEED
BLADES
EIGHTEEN for 25¢**

TRY MARLIN SHAVE CREAM
Lather or Brushless

"FIRST in FUDGE"



WELCH'S
Quality Candies

PICTURES TO THE EDITORS

CONTINUED

LUCKY SNAP

Sirs:

This picture was taken when our baby first became conscious of his anatomy. It is one of those lucky snaps that one reads about but seldom achieves.

HAMILTON B. CHIPMAN
Winnipeg, Manitoba, Canada



INQUISITIVE ALAN

Sirs:

Our son, Alan Lewis, 14 months old, is an inquisitive youngster and his latest adventure intrigued us so much that we photographed it for posterity.

WILLIAM AND OLGA MENKES
Brooklyn, N. Y.



● The two pictures above, which bear such striking similarities, were mailed to LIFE on the same day.—ED.

PAN-TREE

Sirs:

This is what happened when lumber was frozen and we were unable to build the necessary shelves in our pantry.

BETTY McNABB
Jacksonville, Fla.



HE HAS A WIFE AND KID AT HOME
WILL YOU HELP HIM
GET BACK?



Even while piloting his Fortress over enemy territory he can't help but think of Mary and little Pete back home. You can help speed his safe return by your purchases of more War Bonds. It's the least you can do for victory and America.



Style 6109, from Fortune's "Town-street" series. Smart and distinctive.

**YOUR RATION COUPON WILL
GET YOU A Fortune**

AND A WEALTH OF SATISFACTION

It's not often you get the opportunity to turn in your valuable little ration stamp and step into a Fortune. When you do, though, you get the snug-fitting comfort and long mileage you need so much today. Fortunes are sensibly priced, too, at a time when both living costs and taxes are higher. When you're ready to buy, give Fortune a try.

FORTUNE
Shoes for Men

\$5 to \$5.50
SOME STYLES HIGHER

RICHLAND SHOE CO., A DIVISION OF GENERAL SHOE CORP., NASHVILLE, TENN.



1767 English Coffee Pot in floral design. (Courtesy, Museum of Fine Arts, Boston).

Inspiration

FOR MEADOW ROSE

THE exquisite rose motif of this graceful 18th century coffee pot reveals how a modern sterling masterpiece was inspired. The same superb depth of sculpture, grace of line and mellow lustre of finish that mark the work of the great English silversmith, William Grundy, have been recaptured by Watson Craftsmen in Meadow Rose.

For the woman whose heart is set on the finest ... who wants her table to testify to faultless taste in sterling ... her jeweler has "Modern Silver with the Beauty of Old Masterpieces" — at prices intriguingly modest! The Watson Company, 1444 Watson Park, Attleboro, Massachusetts.

Watson Sterling

MODERN SILVER WITH THE BEAUTY OF OLD MASTERPIECES

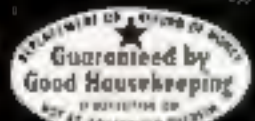


KIBITZING IS DANGEROUS

Loose talk may lose lives! Instead of wasting precious free time listening to idle rumors, get the most from your periods of relaxation with plastic-coated Duratone Playing Cards. They shuffle, deal and play better, last longer. When you are not able to buy Duratone cards, remember, that deck you want may be on its way to one of our fighting fronts.

Get Your Relaxation Playing with

PLASTIC COATED
Duratone
PLAYING CARDS



Easy to Clean
Wipe with Damp Cloth

ARRCO PLAYING CARD CO. • CHICAGO

SAVE PAPER

There is an acute shortage of paper and the government has asked everyone to cut the use of it to a minimum.

TIME, LIFE, FORTUNE and The ARCHITECTURAL FORUM have been cooperating with the War Production Board ever since January 1, 1943, and during 1944 these four publications are budgeted to use 73 million pounds (1450 freight carloads) less paper than in 1942. Will you help too and share your copy of LIFE with your friends?

IRON GLUE

MENDS FURNITURE

Easy to use. No mixing. Also mends toys, models, wood, china, glass, leather, most anything. Sold most everywhere—10¢ bottles or larger sizes from ¼-pint up. McCormick & Co., Inc., Baltimore-2, Md.



AN ELEPHANT FOR STRENGTH

PICTURES TO THE EDITORS

CONTINUED

WHAT'S IN A NAME?

Sirs:

My daughter, Nancy Ellen, decided to explore the physical characteristics of the names of her friends and came up with these beautiful and unusual designs. She folded a piece of paper once, wrote the

name on it and cut it out double. If you look at the design sideways, you can find the name.

C. Y. SANDERS

Fremont, Neb.



NANCY ELLEN'S WORKING MATERIALS—SHEET OF PAPER, PENCIL AND SCISSORS



THIS PRETTY DESIGN SPELLS MOTHER



LAWRENCE LOOKS LIKE TOTEM POLE



MITCHELL HAS SOME INTRICATE LOOPS



FLOURISH IN NAME IMPROVES DESIGN



THIS STYLIZED, FERNLIKE ABSTRACTION REPRESENTS STELLA, EVA AND MOLLIE

ADVENTURE ON THE AMAZON

—LAND of the NEW '49ERS

1 "A ducking in the Amazon is no joke," writes a friend of Canadian Club Whisky. "I learned that when I fell in and barely beat a school of piranha back to the boat. These little fish that travel in big schools are as deadly as sharks... but they're just about the only remaining danger."



2 "Whoever named Amazonia the 'Green Hell' should see it now! Public health boats on every creek—and animal trails transformed into roads. By war's end it should be as safe as Ontario."



3 "The big thing now is rubber—everywhere I saw men smoking the sap to 'jell' it for shipment to the Allies. But for tomorrow's pioneers there's fine ranch and farm land, and forest treasures galore."



4 "Brazil and our own magnificent Pan American Airways are actually flying the rubber out—heralding the postwar day when you'll fly here, and on a vacation schedule and budget."



5 "And don't expect everything to be strange! In Belém I found Canadian Club. Scarce now—but unmistakably an established old Amazonian fixture."

Once the war is over, it will be easier than ever before to visit Latin America. And when that time comes, you will find Canadian Club again available there for toasting all the "good neighbors" you'll be meeting.

Right now, the distillery is concentrating on war alcohol; so Canadian Club is scarce on occasion.

- Also, railways must give war materials and food the right of way, and you may sometimes find your dealer out of stock.

- Many fans are voluntarily "rationing themselves" by making two bottles go the length of three.

IN 87 LANDS NO OTHER WHISKY TASTES LIKE

"Canadian Club"

Distilled and bottled at Walkerville, Canada. Imported by Hiram Walker & Sons Inc., Peoria, Ill.

Bleeding Canadian Whisky. R14 4 sec-6



They've Got What it Takes!

All Ashore with the "Gator Corps"



The famous "alligator" emblem of the Amphibious Training Command

● Up onto the boiling sands, a huge "LST" rams her steel prow ... tanks, jeeps, trucks, artillery pour out of her mighty maw ... and Uncle Sam's specially trained "alligator teams" go into action on an invasion beach-head!

From start to finish, Doughboy and Bluejacket work together, in America's hard-hitting "amphibious forces"...and after that last tank splashes ashore and there's time for a cigarette, you'll find that with soldier, sailor, and coast guardsman alike, the favorite is Camel.

"LST" (shown below) stands for "Landing Ship, Tanks."



R. J. REYNOLDS TOBACCO CO., Winston-Salem, N. C.



ONE-WAY TRAFFIC, straight into action! The Navy gets 'em ashore—and the "alligator cavalry" charges inland! When the welcome word "beach-head consolidated" is flashed, and those ever-present packs of cigarettes are brought out, soldier and sailor team up again—on Camels. For in *all* the services, the first choice in cigarettes is Camel.

*You said it, sailor—
Camels sure are mild
and FRESH-TASTING!
They suit me to a 'T'*

The "T-Zone"— where cigarettes are judged

The "T-ZONE"—Taste and Throat—is the proving ground for cigarettes. Only your taste and throat can decide which cigarette tastes best to you ... and how it affects your throat. Based on the experience of millions of smokers, we believe Camels will suit your "T-ZONE" to a "T." Prove it for yourself!



"CAMELS ARE
SO SMOOTH
AND EASY
ON MY
THROAT"



FRIEDA TRAYNOR, war worker and daughter of an Army man, agrees with the men in the service: "Camels are always so smooth and mild, so fresh-flavored." Yes, Camels stay fresh, Frieda—they're packed to go round the world!

Camels—FIRST in the Service

With men in the Army, Navy, Marines, and the Coast Guard, the favorite cigarette is Camel. (Based on actual sales records.)